PORSF 11.3.234.1 v.5
8/19/08

CONOCOPHILLIPS COMPANY ("CONOCOPHILLIPS"),
ON BEHALF OF PHILLIPS PETROLEUM COMPANY,
TOSCO CORPORATION AND ASSETS OF 76 PRODUCTS COMPANY

RESPONSES TO JANUARY 18, 2008
EPA FIRST REQUEST FOR INFORMATION
PORTLAND HARBOR SUPERFUND SITE
PORTLAND, OREGON

LEAKS, SPILLS, RELEASES

RESPONSES TO QUESTION 62 and 63

~~Tailings~~ Sampling Policies

MH12 Notes

July 7, 1997

Oregon

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

NORTHWEST REGION

ROGER MCGOWNE
TOCSO CORPORATION, NORTHWEST
5528 NW DOANE STREET
PORTLAND OREGON 97210

RE: UST Facility #1203
Tosco Corp., Northwest (Unocal)
Decommissioning Sampling Plan

Dear Mr. McGowne:

The Oregon Department of Environmental Quality (DEQ) has reviewed the proposed sampling plan for decommissioning underground storage tanks (USTs) in place at Tosco Corp. Northwest (Unocal) at 5528 N. W. Doane Street in Portland, Oregon.

The sampling plan was submitted on July 3, 1997, on your behalf by Olympus Environmental, Inc. The sampling is approved with the following conditions:

1. The sampling plan fails to mention your intentions regarding the fate of product lines/piping. If the product lines/piping are to remain in-place, samples should be collected from the native soils directly beneath the areas where contamination may be suspected or at 20 lateral foot intervals.

2. Contingency plans should be instituted if groundwater is encountered during the investigation. Be aware that soil matrix rules do not apply if groundwater is encountered. If water is present in the borings, regardless of whether obvious contamination is or is not present, the DEQ must be notified.

3. The sampling plan proposed that interval soil sampling be conducted one to two feet below the floor of the USTs. DEQ requires that retrieved samples be continuously monitored for the presence of a release. The proposed sampling interval or the most heavily impacted samples shall be collected for laboratory analysis.

4. DEQ understands that UST #ADFHD contained D/O (diesel oil?) #2 additive. Please be advised that additional laboratory analysis may be necessary to assess for the presence of a release on this tank. We suggest you review the sampling procedures and the Material Safety Data Sheet (MSDS) to appropriately assess for the presence of hazardous substances in the decommissioning. Please submit the D/O #2 additive, MSDS with the decommissioning reports.

John A. Kitzhaber
Governor

2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471
DEQ-1

5. In regards to USTs #ADFHH (used oil) and #ADFJC (slop oil), please be advised that Oregon Administrative Rule 340-122-340(6) specifies that in situations where TPH analysis indicates that contamination is present due to a release from a used oil tank, at least one sample must be collected and analyzed for volatile chlorinated solvents, volatile aromatic solvents, and leachable metals (cadmium, chromium, and lead) using the analytical methods specified in 340-122-350. Analysis for PCBs is also required if the contamination is from a waste oil tank other than one used exclusively for storage of automotive waste oils.

6. The plan is silent on reporting procedures if contamination is discovered. If contamination is discovered and is inaccessible because of structural limitations, it will be necessary to characterize the full extent and degree of contamination. This characterization should delineate the lateral and vertical extent of the remaining pocket of contamination. Please address how this assessment will be completed for this decommissioning.

7. The UST permit database for facility #1203 indicates that Unocal is the permitee, owner, and property owner. However, the submtted Notice of UST Permanent Decommissioning/Service Change Report indicates that Tosco Corporation, Northwest is the facility and tank owner.

   If UST permit data for the facility has changed, please complete and submit a modified UST permit application (enclosed) to enable DEQ to reflect the correct contacts. Oregon Administrative Rule 340-150-020(4) states that permits are issued to the person designated as the permitee for the activities and operations of record and shall be automatically terminated within 120 days after the change of ownership of property in which the tank is located, ownership of tank or permitee unless a new UST permit application is submitted.

8. As requested, DEQ approves waiver of the 30-day noticification period. However, a verbal notice must be provided to the UST Duty Officer at (503) 229-5489, at least 3-working days prior to beginning the UST decommissioning. This notice will enable the DEQ an opportunity to document the decommissioning operations and provide any technical assistance necessary.

9. Upon completion of the decommissioning closure documents shall be submitted to the DEQ.

10. Please verify USTs #ADFHE (6,000 gallon diesel) and #ADFJB (5,000 gallon flush oil) will remain active at this facility. Permit DEQ to remind you of the December 22, 1998, deadline to upgrade/replace or decommission USTs which don't meet cathodic protection, overfill/spill, leak detection, and financial responsibility requirements. For your information, I have enclosed the document "Don't Wait Until 1998".

Tosco:rhr

We appreciate your efforts to close and operate your tanks in accordance with the regulations. If you have any questions regarding this matter, please call me at (503)229-5472.

Sincerely,

Richard H. Rose
UST Compliance Specialist
Northwest Region

cc: Stephanie Holmes/Greg Toran - ODEQ/HQ/UST
Bob Janak
Olympus Environmental, Inc.
12755 North East Marx Street
Portland, OR. 97230

Tosco:rhr

OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY

UNDERGROUND STORAGE TANK PROGRAM

MODIFIED PERMIT APPLICATION

TANK OWNER

Name TOSCO

Address 5538 NW DOANE AVE

Address PORTLAND, OR 97210

Date 7-16-97

Phone 503-248-1553

Signature X Roger McGuire

PLEASE FILL IN ONLY THE INFORMATION THAT HAS CHANGED.
PLEASE PRINT CLEARLY AND PROVIDE THE NECESSARY SIGNATURES.

(Even if it is the same person, all 3 signatures are required.)

PROPERTY OWNER

Name TOSCO

Address 5538 NW DOANE AVE

Address PORTLAND OR. 97210

Signature X Roger McGuire

FACILITY # _____

Name _____

Address _____

Address _____

Phone _____

SIC Code _____

PERMITTEE WILL RECEIVE THE ANNUAL FEE INVOICE

PERMITTEE

Name _____

Address _____

Address _____

Signature X _____

PLEASE SEND NO MONEY

WITH THIS APPLICATION

See reverse side for further instructions

INSTRUCTIONS

The Department of Environmental Quality (DEQ) must have current information for the tank owner, property owner and permittee for each underground storage tank (UST) facility (location). Please provide the necessary information on the changes made at the designated facility. If DEQ is not informed of a change in tank owner, property owner or permittee, the UST permits automatically expire after 120 days. There is no fee for submitting this modified permit application. DEQ will invoice the new permittee for the appropriate annual compliance fee for the tanks.

1. TANK OWNER CHANGES - fill in the new owner's name and address in the box marked "Tank Owner". Provide the date this form was signed and the tank owner's phone number. The owner or owner's authorized representative must sign this form.

2. PROPERTY OWNER CHANGES - fill in the new property owner's name and address in the box marked "Property Owner". If this is the same person as the tank owner, write "SAME". Even if it is the same person, the property owner or property owner's authorized representative must sign this form.

3. PERMITTEE CHANGES - fill in the new permittee's name and address in the box marked "Permittee". If this is the same person as the tank owner, write "SAME". Even if it is the same person, the permittee must sign this form. DEQ will be contacting the permittee for the payment of the annual permit fees and for any other reason relating to the tanks. Tank owners can designate the permittee, but this must be an informed consent agreement between the two parties.

4. FACILITY NAME CHANGES - if the name of the facility has changed, please provide the new name. The address listed for the facility is the actual location of the tanks and does not need to be a mailing address. (It may even be latitude and longitude or township, range and section.)

5. SIC CODE - this is the Standard Industrial Classification that is developed by the federal government. The SIC Code classifies a business by economic structure and the information provided will be used to categorize the types of businesses with USTs. Provide the SIC Code for the type of operation done at the particular facility. A manual for SIC Codes, "Standard Industrial Classification Manual - 1987" produced by the Executive Office of the President, Office of management and Budget, can usually be found at our local library. If you can not find the SIC Code for your business, phone DEQ at 229-5733.

If new tanks are to be installed at this facility, a complete permit application must be filled out for the new tanks thirty days prior to installation. If any tanks are to be permanently decommissioned, either by removal or filling with an inert solid material, a written notice must be submitted to DEQ 30 days in advance of decommissioning work.

Return this application to:

Department of Environmental Quality
Underground Storage Tank Program
811 S W 6th Avenue
Portland, OR 97204

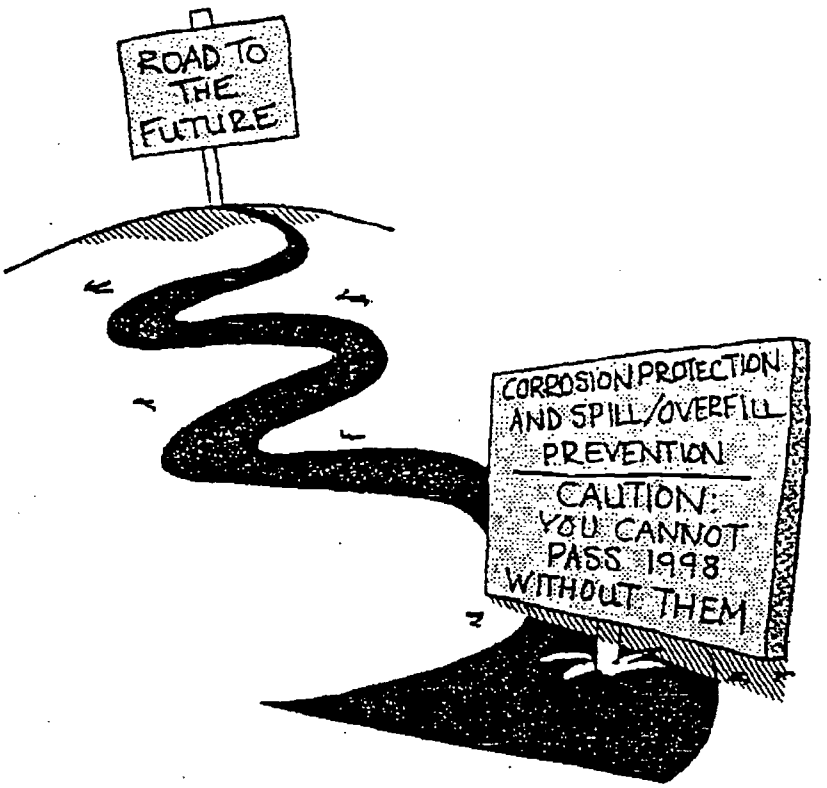
10/91

United States Environmental Protection Agency | Solid Waste And Emergency Response 5403W | EPA 510-B-94-002 April 1994

EPA

Don't Wait Until 1998

Spill, Overfill, And Corrosion Protection for Underground Storage Tanks



Why Should You Read This Booklet?

This booklet contains information to help you meet requirements for underground storage tank systems (USTs) *installed before December 22, 1988*. We call these older tank systems "*existing USTs*."

This booklet uses "upgrading" and "upgrade" to mean adding spill, overfill, and corrosion protection to existing USTs.

Federal rules require you to make sure your existing USTs have the following by December 22, 1998:

- **Spill protection**
- **Overfill protection**
- **Corrosion protection**

Check with your state regulatory agency to find out if the state has an earlier deadline or additional requirements.

You must choose <u>one</u> of the following actions for an existing UST:

- **Add spill, overfill, and corrosion protection by December 22, 1998**
- **Close the existing UST by December 22, 1998**
- **Replace the closed existing UST with a new UST**

You should act as soon as possible. Without the protection provided by upgrading or replacing, your UST is more likely to leak, damage the environment, and leave you with costly cleanups. The next page lists several advantages of acting early.

If your existing USTs have not been upgraded or have not been properly closed by the 1998 deadline, you can be cited for violations and fined.

This booklet focuses on how you can meet upgrade requirements. The basic upgrade requirements are listed on page 3. Some information on properly closing an UST appears on page 12. You can find more information on the requirements for new UST systems (those installed after December 22, 1988) in EPA's publication "Musts for USTs" (ordering information on page 15).

What Are The Basic Upgrade Requirements For *Existing* USTs?

Spill Protection *(see pages 4—5)*

Existing tanks must have **catchment basins** *to contain spills from delivery hoses.*

Overfill Protection *(see pages 6—7)*

Existing tanks must use ONE of the following:

- Automatic shutoff devices
- Overfill alarms
- Ball float valves

Corrosion Protection *(see pages 8—11)*

Existing tanks must match ONE of the following:

- Steel tank has corrosion-resistant coating AND cathodic protection (such as an sti-P_3® tank)
- Tank made of noncorrodible material (such as fiberglass)
- Steel tank clad with noncorrodible material (such as an ACT-100® tank) or tank enclosed in noncorrodible material
- Uncoated steel tank has cathodic protection system
- Uncoated steel tank has interior lined with noncorrodible material
- Uncoated steel tank has cathodic protection AND interior lined with noncorrodible material

Existing piping must match ONE of the following:

- Uncoated steel piping has cathodic protection
- Steel piping has a corrosion-resistant coating AND cathodic protection
- Piping made of (or enclosed in) noncorrodible material (such as fiberglass)

1998 Deadline: *Existing USTs must be protected from spills, overfills, and corrosion by December 1998.*

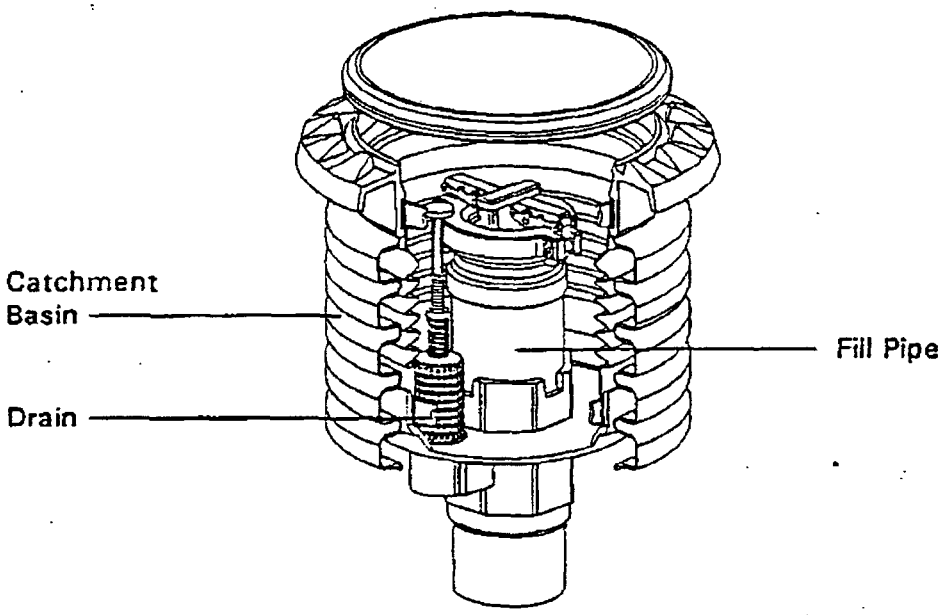
ALL tanks and piping must already have leak detection. See EPA's "Straight Talk on Tanks" (ordering information on page 15).

When new USTs are installed, they must have leak detection and protection from spills, overfills, and corrosion. See EPA's "Musts for USTs" (ordering information on page 15).

To protect against spills, the basin should be large enough to contain what may spill when the delivery hose is uncoupled from the fill pipe. Basins range in size from those capable of holding only a few gallons to those that are much larger—the larger the catchment basin, the more spill protection it provides.

Your equipment supplier can help you choose the size and type of catchment basin that meets your needs.

You need a way to remove liquid from catchment basins. Manufacturers equip catchment basins with either pumps or drains to remove liquid. The illustration on the previous page shows a catchment basin with a pump; the illustration below shows a catchment basin with a drain.



You should try to keep water out of catchment basins. Some catchment basins can collect enough water and sediment, along with spilled product, to make draining this mixture into the tank unwise. If this happens, you may pump out the catchment basin and dispose of the liquid properly. If the liquid contains fuel or chemicals, it could be considered a hazardous waste. Contact your state agency responsible for hazardous waste for information on testing and handling requirements.

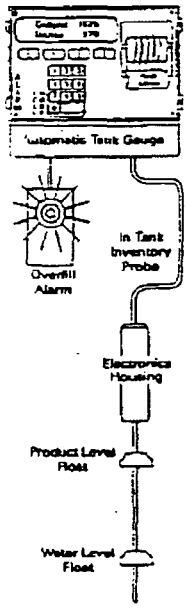
Having the surrounding surface slope away from the top of catchment basins helps keep water out of them.

Some automatic shutoff devices work in two stages. The first stage drastically reduces the flow of product to alert the driver that the tank is nearly full. The driver can then close the delivery valve and still have room in the tank for the product left in the delivery hose.

If the driver does not pay attention and the liquid level rises higher, the valve closes completely and no more liquid can be delivered into the tank, leaving the driver with a delivery hose full of product.

To work properly, all overfill devices must be installed carefully at the correct distance below the tank top specified by the manufacturer.

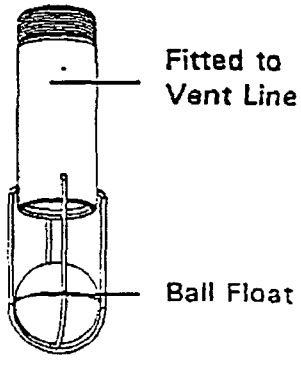
2. *What Are Overfill Alarms?*



Overfill alarms use probes installed in the tank (see illustration on the right) to activate an alarm when the tank is either 90 percent full or within 1 minute of being overfilled. Either way, the alarm should provide enough time for the driver to close the truck's shutoff valve before an overfill happens. Alarms must be located where the driver can see or hear them easily. (Overfill alarms are often a part of automatic tank gauging systems.)

Overfill alarms work only if they alert the driver at the right time and the driver responds quickly. Remember to put the alarm on an electrical circuit that is active all the time so that the alarm will always work. Many deliveries are made at night when the facility is closed. You don't want to turn off your alarm when you turn off the office lights.

3. *What Are Ball Float Valves?*



Ball float valves (see illustration on the right) are placed at the bottom of the vent line several inches below the top of the UST. The ball floats on the product and rises with product level during delivery until it restricts vapor flowing out the vent line—before the tank is full. If all tank fittings are tight, the ball float valve can create enough back pressure to restrict product flow into the tank—which can notify the driver to close the truck's shutoff valve. However, if the UST has loose fittings, sufficient back pressure may not develop and will result in an overfill. *Note: Manufacturers do not recommend using ball float valves with suction piping, pressurized delivery, or coaxial Stage I vapor recovery.*

1. Add cathodic protection. If you are adding only cathodic protection, you must do the following:

   ■ First, assess tank integrity. Satisfy ONE of the following methods to make sure that the tank is structurally sound:

   Only tanks proven to be structurally sound can have cathodic protection added to them.

   - If the tank is LESS THAN 10 YEARS OLD, you can use results from one of the monthly leak detection methods to show the UST is not leaking (groundwater monitoring, vapor monitoring, interstitial monitoring, automatic tank gauging, statistical inventory reconciliation, or other approved methods).

   - If the tank is LESS THAN 10 YEARS OLD, you can use results from two tank tightness tests to show the UST is not leaking. The first test takes place before you install cathodic protection, and the second test takes place between 3 and 6 months after installation.

   - If the tank is 10 YEARS OLD OR MORE, it must be internally inspected, tested, and assessed to make sure that the tank is structurally sound and free of corrosion holes (see page 14 for industry codes).

   - You can assess the tank for corrosion holes by a method that the implementing agency determines is no less protective than those above. (For example, a national consensus code may be developed for assessing tank integrity without internal inspection.)

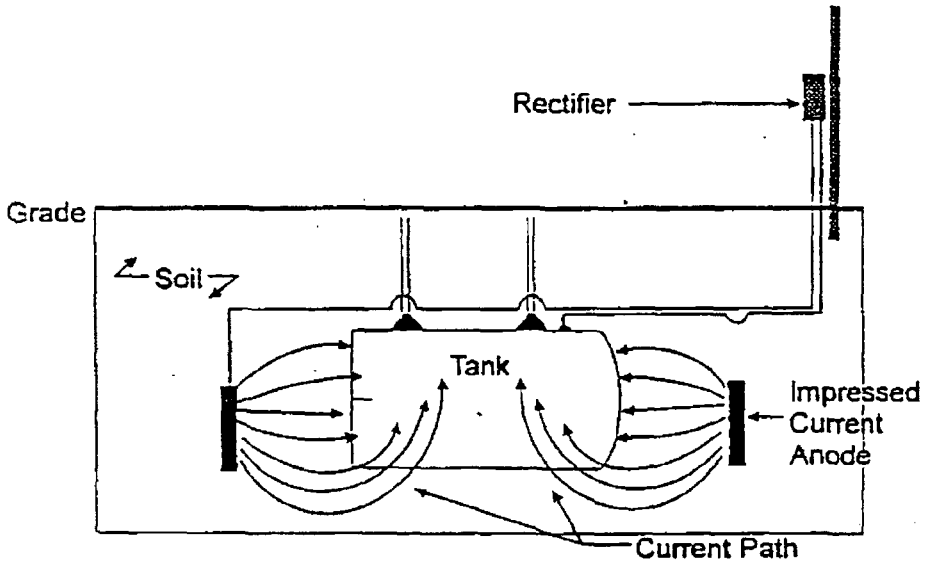
   ■ **Second, install cathodic protection.** Regulations require a qualified cathodic protection expert to design, supervise installation, and inspect cathodic protection systems installed at the UST site. The system must be tested by a qualified cathodic protection tester within 6 months of installation and at least every 3 years thereafter. You will need to keep the results of the last two tests to prove that the cathodic protection is working. In addition, you must inspect an impressed current system every 60 days to verify that the system is operating. Keep results of your last three inspections to prove that the impressed current system is operating properly.

   Using cathodic protection requires periodic tests and inspections, as well as consistent recordkeeping (see page 14 for industry codes).

What Are Cathodic Protection Methods?

IMPRESSED CURRENT SYSTEM

An impressed current system uses a rectifier to convert alternating current to direct current (see illustration below). This current is sent through an insulated wire to the "anodes," which are special metal bars buried in the soil near the UST. The current then flows through the soil to the UST system, and returns to the rectifier through an insulated wire attached to the UST. The UST system is protected because the current going to the UST system overcomes the corrosion-causing current normally flowing away from it.



SACRIFICIAL ANODE SYSTEM

Another type of cathodic protection (not illustrated here) is called a sacrificial anode or galvanic system. Although sacrificial anode systems work with new USTs, corrosion protection experts generally agree that ***sacrificial anodes do not work effectively or economically with most existing steel USTs***. Only a qualified cathodic protection expert can determine what kind of cathodic protection will work at your UST site.

For more information on corrosion and how USTs can be protected from it, contact NACE International (formerly the National Association of Corrosion Engineers) or other professionals in this field (see page 14).

What About Hazardous Substance USTs?

Several hundred substances are designated as "hazardous" in Section 101(14), of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980, better known as CERCLA. The UST regulations apply to tanks that store the same hazardous substances identified by CERCLA, except for those listed as hazardous wastes. Information on CERCLA hazardous substances is available through EPA's RCRA/Superfund Hotline at 800 424-9346.

If your hazardous substance UST was installed before December 22, 1988, you have until December 22, 1998 to add spill, overfill, and corrosion protection (see pages 4-11). Otherwise, you must properly close the UST (see page 12). By this same date, hazardous substance USTs must also have leak detection systems that include secondary containment and interstitial monitoring. The leak detection system must be able to detect a leak in the interstitial space within 30 days of occurrence. (Some regulatory authorities may allow you to apply for permission to use another leak detection method.)

Secondary containment is created by placing a barrier inside or outside the tank and piping so that any leaks are contained within the space between the barrier and the tank and piping. This containment space is called the "interstitial space" and must be monitored for leaks. Methods that create an interstitial space for existing systems are currently limited in number and not available everywhere.

For more information on hazardous substance USTs, see "Musts for USTs" (ordering information on page 15).

PARTIAL LIST OF HAZARDOUS SUBSTANCES

HAZARDOUS SUBSTANCE	CASRN*
Acenaphthene	83329
Acenaphthylene	208968
Acetaldehyde	75070
Acetaldehyde, chloro-	107200
Acetaldehyde, tricloro-	75876
Chromic sulfate	10101538
Chromium	7440473
CHROMIUM AND COMPOUNDS	-
Chromous chloride	10049055
Chrysene	218019
Cobaltous bromide	7789437
Cobaltous formate	544183
Cobaltous sulfamate	14017415
Copper	7440508
Copper cyanide	544923
Famphur	52857
Ferric ammonium citrate	1185575
Ferric ammonium oxalate	2944674
Ferric chloride	7705080
Ferric dextran	9004664
Ferric fluoride	7783508
Ferric nitrate	10421484
Ferric sulfate	10028225
Kelthane	115322
Kepone	143500
Lasiocarpine	303344
LEAD AND COMPOUNDS	-
Lead	7439921
Lead acetate	301042
Lead arsenate	7784409
Lead chloride	7758954
Lead fluoborate	13814965
Lead iodide	10101630
Zinc nitrate	7779886
Zinc phenolsulfonate	127822
Zinc phosphide	1314847
Zinc silicofluoride	16871719
Zinc sulfate	7733020
Zirconium nitrate	13746899
Zirconium sulfate	14644612
Zirconium tetrachloride	10026116

* Chemical Abstracts Service Registry Number

NOTE: *You may find the "Quick Compliance Checklist" on page 16 to be helpful.*

General

API Recommended Practice 1615 (1987), "Installation of Underground Petroleum Storage Systems"

PEI RP100-94 (1994), "Recommended Practice for Installation of Underground Liquid Storage Systems"

EPA PUBLICATIONS

Leak Detection Requirements

"Straight Talk On Tanks: A Summary of Leak Detection Methods for Petroleum Underground Storage Tanks." To order this free publication, call EPA's toll-free RCRA/Superfund Hotline at 800 424-9346 and ask for EPA 530/UST-90/012.

Installing New USTs and General Information

"Musts for USTs: A Summary of the Regulations for Underground Storage Tank Systems." Order from Superintendent of Documents, Box 371954, Pittsburgh, PA 15250-7954; order #055-000-00294-1 ($2.50 a copy).

Taking Corrective Action

"Oh No! Petroleum Leaks and Spills: What Do You Do?" To order this free publication, call EPA's toll-free RCRA/Superfund Hotline at 800 424-9346 and ask for EPA 530/UST-88/004.

Tank Filling

"Keeping It Clean: Making Safe and Spill-Free Motor Fuel Deliveries." For ordering information call EPA's toll-free RCRA/Superfund Hotline at 800 424-9346 (video costs about $60).

Closure

"Tank Closure Without Tears" and "What Do We Have Here?" Videos and companion booklets available ($20 to $45) from New England Interstate Water Pollution Control Commission, ATTN: VIDEOS, 2 Fort Road, South Portland, ME 04106.

CET Environmental
Services, Inc.
P.O. Box 83655, Portland, Oregon 97283
5315 N.W. St. Helens Road, Portland, Oregon 97210
Telephone: (503) 227-5892 Fax: (503) 241-8259

Dec. 12, 1998

Mr. Roger McGowne
TOSCO Distribution Company
5528 NW Doane St.
Portland, Oregon 97210

RE: Decommissioning Report for 6000 gallon Diesel UST at facility#1203.

Dear Roger:

The following is the decommissioning report for (1) 6000 gallon Underground Storage Tank (UST), located at the TOSCO Portland Terminal 5528 NW Doane St. Portland, Oregon.

CET Environmental Services, Inc. submitted the required 30-day notification of intent to decommission in place the UST to the Department of Environmental Quality (DEQ) on Oct.21, 1998, with a projected start date of Dec.1. CET notified DEQ on 11/30/98 of the 3-day start date for the project. In speaking with Mr. Greg Toran of DEQ, he asked that CET submit a sampling plan for the project since the intent was to Decommission the tank in place due to the close proximity of the tank to the adjacent drain and building. CET submitted the sampling plan to Mr. Toran on 11/30/98 and permission to start the project on 12/02/98.

CET mobilized on site on 12/02/98 and sawcut the concrete pad over the tank to gain access to the tank. After removing a 3'x3' area above the tank to enable CET to cut a hole in the tank, clean and collect samples, the decision was made by TOSCO to try and remove the UST as opposed to decommission it in place. Since CET did not have the equipment on site to excavate the tank, it was decided that CET would demob, returning on Friday 12/04/98 with a trac-hoe to pull the tank. CET notified DEQ, via voice mail to Mr. Toran, of the change in plans. CET also notified Mr. Doug Friant with the Portland Fire Bureau of the change in schedule. Mr. Friant said that he would not be available on 12/04/98 for an inspection but to proceed with the project and notify him by voice message of any problems.

CET re-mobilized on Friday 12/04 with a trac-hoe and began the project by removing the entire concrete pad over the tank. After the concrete and rebar was removed and stockpiled, all product lines were flushed with water back to the tank. The residual product and rinse water was removed from the tank using a vacuum truck. Th product dispenser was disconnected, pipes removed flush with the ground surface and capped with concrete plugs.

As CET started to remove and stockpile the overburden from the tank, it was discovered that the tank was of single wall fiberglass construction. The backfill material in the tank excavation consisted of ¼ inch pea gravel and during the course of the excavating the fill material, it was difficult to keep the excavation open. There was concern that if CET proceeded with the removal of the tank, the building and catch basin adjacent to the excavation could possibly be undermined with the sloughing of fill material. It was decided that CET go back to the original plan of decommissioning the tank in place.

CET inerted the tank with carbon dioxide and removed approx. ¾ of the top of the fiberglass tank. CET completed a second wash of the tank interior to remove all remaining residual product. The product and rinse waters were taken to Harbor Oil, Inc. for recycling. A visual inspection of the tank interior showed no noticeable cracks or holes and the overburden appeared to be clean with no visible sign of stains. CET notified the DEQ via voice message that the tank was going to be filled and the site backfilled so that no further undermining of the building take place. CET would arrange for a Geo-Probe for collecting soil samples. CET proceeded to backfill the tank and excavation with the removed overburden and clean imported crushed rock.

CET and Geo-Tech mobilized to the site on 12/09/98 to collect soil samples by use of a Geo-Probe. Sample #01 was collected at the south wall of the excavation, approx. 16" from the south end of the tank, at a depth of 7'6". Sample #02 was collected from beneath the south end of the tank at a depth of 15'101/2" below ground surface (bgs). Sample #03 was collected from the east wall of the excavation, 20" east of the UST at a depth of 7'7" bgs. Sample #04 was taken from the north wall of the excavation, at 11'6"bgs. Sample #05 was collected at 15'1" bgs, from beneath the north end of the tank, and sample #06 was collected along the west wall of the UST, at 11'5" bgs (see field notes for more detail). The samples were delivered to Columbia Inspection under a chain of custody for rush analysis.

CET received samples results on 12/11/98. Results showed that contamination exist in the soils for gas; diesel or heavy oil hydrocarbons at all locations except sample #06, which was the west wall at 11'5" bgs. (See analysis report for quantification and range of contamination.

Enclosed with this report you will find all notification forms, fire dept. permit, site maps, sample location, disposal receipt for Harbor Oil and analytical results. A copy of this report is being forwarded to DEQ. If you should have any questions regarding this report, please do not hesitate to contact me at (503)524-7159.

Respectfully,

Scott Gilfillan
CET Environmental Services, Inc.

Cc: Oregon Department of Environmental Quality-NW Region

Oregon Department of Environmental Quality

UNDERGROUND STORAGE TANK DECOMMISSIONING/CHANGE-IN-SERVICE 30-DAY NOTICE

FACILITY (Location of Tanks)

Name: Tosco Distribution Co. Formerly Unocal 76 Products

Address: 5528 NW Doane St. Portland, OR. 97210

Phone: 503-~~227~~-248-1558

TANK OWNER

Name: Tosco Distribution Co.

Address: 5528 NW Doane St. Portland, OR. 97210

Phone: 503-248-1558

DEQ Facility I.D. Number: ORD087458196 I.D.#1203

Work To Be Performed By: CET Environmental Services License # 14411
(Owner or Licensed Service Provider)

Phone: Scott 227-5892 Mobile Phone: 819-5795

THIS FORM MUST BE SUBMITTED BY UST OWNER OR OPERATOR 30 DAYS BEFORE START OF WORK

YOU MUST CONTACT YOUR LOCAL DEQ REGIONAL OFFICE 3-DAYS BEFORE STARTING ANY DECOMMISSIONING WORK. (Phone numbers are listed on reverse)

Will tank removal or potential cleanup affect adjacent property or Right-of-Way property? Yes _____ No ✓

decommissioning is scheduled to begin: Dec 1, 98

			PRODUCT: GASOLINE, DIESEL, USED OIL, OTHER?		CLOSURE OR SERVICE CHANGE?			TANK TO BE REPLACED?	
TANK ID #	DEQ-UST PERMIT #	TANK SIZE IN GALLONS	PRESENT	NEW	TANK REMOVAL	CLOSURE IN PLACE♦	OTHER USE♦	YES*	NO
0608-0200-3	ADFHE	6000	Diesel			✓			✓

* If decommissioned tank(s) are to be replaced by new underground storage tanks you must submit a new permit application containing information on the new tanks 30 days before placing them in service.

♦ Submit a soil sampling plan to the DEQ regional office and receive plan approval prior to starting work if (1) tank is to be decommissioned in-place, (2) tank contents are changed to an unregulated substance, (3) tank contains a regulated substance other than petroleum, or (4) tank is changed to an unregulated use.

Signature: Roger McGuire Date: 10-21-98
(Owner or Operator)

Oregon Department of Environmental Quality

UNDERGROUND STORAGE TANK DECOMMISSIONING/CHANGE-IN-SERVICE CHECKLIST

DEQ FACILITY NUMBER: 1203 DATE: 12/04/98

FACILITY NAME: Tosco Distribution Company

FACILITY ADDRESS: 5528 NW Doane St. Portland, OR. 97210

PHONE: 248-1558

A. SAFETY EQUIPMENT ON JOB SITE:

Fire Extinguisher: Type/Size: ABC 20# 2EA. Recharge Date: 12/98

Combustible Gas Detector: Model: Industrial Scientific 271 Calibration Date: daily

Oxygen Analyzer: Model: " " " Calibration Date: daily

B. DECOMMISSIONING:

All Tanks: N/A = Not Applicable (Check (√) Appropriate Box)	YES	NO	UNKNOWN	N/A
1. All electrical equipment grounded and explosion proof?	✓			
2. Safety equipment on job site?	✓			
3. Overhead electrical lines located?				✓
4. Subsurface electrical lines off or disconnected?	✓			
5. Natural gas lines off or disconnected?				✓
6. No open fires or smoking material in area?	✓			
7. Vehicle and pedestrian traffic controlled?	✓			
8. Excavation material area cleared?	✓			
9. Rainwater runoff directed to treatment area?				✓
10. Drained and collected product from lines?	✓			
11. Removed product and residual from tank?	✓			
12. Cleaned tank?	✓			
13. Excavated to top of tank?	✓			
14. Removed tank fixtures? (pumps, leak detection equipment)	✓			
15. Removed product, fill and vent lines?	✓			

F. WORK PERFORMED BY:

DEQ Service Provider's License #: 14411

Name: CET Environmental Services, Inc.

Telephone: 503-227-5892

DEQ Decommissioning Supervisor's License #: 13090

Name: Scott Gilfillan

Telephone: 503-524-7159

G. CHECKLIST FILING:

1. Provide copy of checklist to the UST owner and operator.

2. Send completed checklist to the DEQ regional office for your area within 30 days after the excavation is backfilled.

NOTE: If contamination was found during decommissioning and reported to the appropriate DEQ regional office, this report may be submitted with either the first interim cleanup report or the final cleanup report, whichever is first.

RETURN COMPLETED AND SIGNED FORM TO THE DEQ REGIONAL OFFICE FOR YOUR AREA.

EASTERN REGION / BEND
2146 NE 4th, #104
Bend, OR 97701
Phone: (541) 388-6146
Fax: (541) 388-8283

EASTERN REGION / THE DALLES
400 E. Scenic Drive, #307
The Dalles, OR 97058
Phone: (541) 298-7255
Fax: (541) 298-7330

EASTERN REGION / PENDLETON
700 SE Emigrant, Suite 330
Pendleton, OR 97801
Phone: (541) 276-4063
Fax: (541) 278-0168

TERN REGION / SALEM
750 Front Street NE, Suite 120
Salem, OR 97310
Phone: (503) 378-8240
Fax: (503) 373-7944

WESTERN REGION / EUGENE
1102 Lincoln Street, Suite 210
Eugene, OR 97401
Phone: (541) 686-7838
Fax: (541) 686-7551

WESTERN REGION / MEDFORD
201 Main Street, Suite 2-D
Medford, OR 97501
Phone: (541) 776-6136, Ext. 233
Fax: (541) 776-6262

NORTHWEST REGION
2020 SW 4th Avenue, Suite 400
Portland, OR 97201-5884
Phone: (503) 229-5263
Fax: (503) 229-6945

I have personally reviewed this decommissioning checklist and find it to be true and complete.

Signature: Scott Gilfillan (Licensed Supervisor) Date: 12-4-98

Signature: Roger W McClure (Owner or Operator) Date: 12-14-98

For information: (503) 229-5733 or Toll Free in Oregon UST HELPLINE 1-800-742-7878

Oregon Department of Environmental Quality

UNDERGROUND STORAGE TANK DECOMMISSIONING/CHANGE-IN-SERVICE REPORT

DEQ FACILITY NUMBER: 1203 active LUST #26-97-0577 DATE: 12/04/98

FACILITY NAME: Tosco Distribution Company

FACILITY ADDRESS: 5528 NW Doane St. Portland, OR. 97210

PHONE: 503-248-1558

The following information MUST be submitted by the underground storage tank owner, operator or licensed DEQ Supervisor within 30 days following completion of the tank decommissioning or changing tank contents to a non-regulated substance. (OAR 340-150-001 through -150).

The attached supplemental checklist should be prepared by the person performing the decommissioning or service change. The checklist should be provided to DEQ and the tank owner to demonstrate that all required practices were followed.

Ordinarily the checklist is filled out by the DEQ licensed Service Provider or Supervisor. Owners who wish to personally decommission a tank or change service must follow all DEQ and other applicable standards. The owner should contact the DEQ Regional Office prior to starting the work to receive current copies of underground storage tank regulations.

A. DATES:

Decommissioning/Service Change Notice - Date Submitted: 10/21/98 (30 days before work starts).

Work Start Telephone Notice - Date Submitted: 11/30/98 (3 working days before work starts).

DEQ Person Notified: Greg Toran Log# 26-3D-98-204

Date Work Started: 12/4/98 Date Work Completed: 12/4/98

Note: Provide the following information if any soil or water contamination is found during the decommissioning or service change. Contamination must be reported by the UST owner or operator within 24 hours. The licensed service provider must report contamination within 72 hours after discovery unless previously reported.

Date Contamination Reported: 12/14/98 By: Scott Gilfillan

DEQ Person Notified: Greg Toran - left voice message

Backfill Telephone Notice - Date Called: 12/4/98 @ 1300 hr. (before backfilling).

DEQ Person Notified: Greg Toran - left message on machine.

B. PERMITS: Note: DEQ permits may be needed where soil or water cleanup is required.

DEQ Water Discharge Permit #: N/A Date: _____

Disposed to (Location): _____

DEQ Solid Waste Disposal Permit #: N/A Date: _____

Soil Disposal or Treatment Location: _____

F. SITE SKETCH: (Show location of adjacent roads, property lines, sturctures, dispenser, & all USTs. Show North, general direction of ground slope and soil sample locations. Sketch does not need to be drawn to scale. You may attach a separate drawing.)

See attachment.

CET Environmental
Services, Inc.
P.O. Box 83655, Portland, Oregon 97283
5315 N.W. St. Helens Road, Portland, Oregon 97210
Telephone: (503) 227-5892 Fax: (503) 241-8259

Nov. 30, 1998

Mr. Greg Toran
Oregon Department of Environmental Quality
Northwest Region
2020 NW 4th Ave. Suite 400
Portland, Oregon 97201-5263

RE: TOSCO Distribution Company Facility # 1203 UST Decommissioning

Dear Mr. Toran:

CET Environmental Services, Inc. submitted a 30-day notice of intent to decommission an Underground Storage Tank at the TOSCO Distribution Company, located at 5528 NW Doane St. in Portland, OR. The notice was sent to ODEQ on Oct. 21, 1998.

The UST was to be decommissioned in place on Dec. 1, 1998. Upon notifying ODEQ for the 3 day notice, it was noticed that a sampling plan was not requested or submitted for the in place closure.

CET Environmental Services would like to proceed with Decommissioning on Wed. Dec. 2, 1998 with the following sampling plan:

- Collect 2 soil samples below the bottom of the UST (one from each end of the tank) after the tank has been cleaned, gas freed and inspected by the Portland Fire Dept.
- have soil samples analyzed for TPH-D on a 24 hour turnaround
- fill tank with a sand/slurry mixture

If you should have any questions regarding this project, please contact me at (503)227-5892.

Respectfully,

Scott Gilfillan
CET Environmental Services, Inc.

UST SERVICE PROVIDER LICENSE

This License is Issued by The Oregon Department of Environmental Quality to:

CET Environmental Services Inc
5315 NW St. Helens Rd.
Portland, OR 97283

You are Licensed to Offer the Following Underground Storage Tank Services:

License Type	License Number	Issued	Expires
Soil Matrix Cleanup Prov.	14410	March 21, 1997	March 21, 1999
Service Provider	14411	March 21, 1997	March 21, 1999

A Licensed Underground Storage Tank Supervisor Must be Present at a Site to Perform These Services

Issued: xx RE ID: 12272

Expires: xxxxxxxx ADDR ID: 151382

Authorized: _____

Michael H. Kortenhof
UST Compliance Manager

A Copy of This License Shall Be Available for Inspection At All Sites Involving UST Work

COPPOR0002425

Scott Gilfillan
15380 SW Sandpiper Lane
Beaverton, OR 97007

LICENSED SERVICES	LIC#	EXPIRES
Decommission	13090	05/10/99
Soil Matrix Cleanup	13091	05/10/99

Supervisor Signature

CET Environmental
Services, Inc.
P.O. Box 83655, Portland, Oregon 97283
5315 N.W. St. Helens Road, Portland, Oregon 97210
Telephone: (503) 227-5892 Fax: (503) 241-8259

CET ENVIRONMENTAL SERVICES, INC.

SITE SPECIFIC HEALTH AND SAFETY PLAN

Purpose

To develop a formal Safety Plan that is specific to work being performed at the TOSCO Distribution Company, Portland, OR., that will promote a safe workplace for all employees and the customer which will ultimately lead to an injury and hazard free environment.

Scope

This Site Specific Plan shall apply to all CET employees performing work at the TOSCO Terminal during the Decommissioning in place of (1) 6000 gallon Underground Storage Tank used for storing Diesel fuel. This plan shall also apply to all subcontractors and their employees while performing work for CET at TOSCO Distribution Company, Portland, OR.
This plan will be enforced in conjunction with CET Corporate Health and Safety Policies.

Management Responsibilities

It has and will continue to be the responsibility of all management personnel to ensure a safe and hazard free work environment for all employees, subcontractors and their employees. These responsibilities include, but are not limited to the following:

- Federal, state and local regulatory requirements are strictly adhered to
- Employees are technically qualified for their assigned duties, maintaining training and certifications commensurate with their assignments
- Work site controls are selected to reduce and/or eliminate the risks to people and the natural environment
- Provide proper tools and personal protective equipment required to perform the work in a safe and craftsman like manner
- Smoking is prohibited on customer property, except in areas designated by proper signage
- Work is performed accurately the first time
- Any injury, no matter how minor, is treated promptly and reported immediately to the TOSCO representative
- All accidents are promptly investigated and include a determination of immediate and basic causes with corrective actions to prevent recurrence
- Random work site audits are conducted to ensure policies are enforced

Employees Responsibilities

It shall be the responsibility of all CET employees to adhere to the Corporate Safety Plan and the Site Safety Plan as it applies to this project. These responsibilities are to include, but are not limited to the following:

- Attending and actively participating in daily safety meetings prior to start of each shift
- Performing all work in a safe and professional manner
- Familiarizing themselves with proper safety procedures for the task they are assigned
- Report any injury to his or her supervisor immediately
- Warn any individual observed performing work in an unsafe manner
- Eliminate any unsafe work hazard before an accident occurs
- Practice good housekeeping
- Use all protective equipment correctly

Subcontractor Responsibilities

It shall be the responsibility of all subcontractors and their employees to ensure a safe working environment at all times and to strictly adhere to all policies outlined in this Safety and Health Plan as it applies to their scope of work for the project.

General Information

Site Name:	TOSCO Distribution Company
Site Address:	5528 NW Doane St., Portland, OR. 97210
Terminal Manager:	Anita Rogers
Site Contact Person:	Roger McGowen
Project Name:	Diesel Underground Storage Tank Decommissioning
Project Description:	Provide all labor, equipment and materials required to Decommission the 6000 gallon UST, to include removing concrete slab over tank, gaining access to tank, entering tank to clean and remove all residual fuel from tank and associated piping, collecting soil samples from beneath tank and filling tank with a sand/slurry mixture.

Mobilization and Start Date:	Monday Nov. 30, 1998
Finish Date:	Wednesday Dec. 2,1998
Working Hours:	0700 to 1800 hours

Emergency Information

Site Name:	TOSCO Distribution Company.
Address:	Portland Terminal 5528 NW Doane St. Portland, OR.
Phone No.:	503-248-1558
Contact Person:	Roger McGowen
Contractor Name:	CET Environmental Services, Inc.
Address:	PO Box 83655 5315 NW St. Helens Road Portland, Oregon 97283
Phone No.:	503-227-5892
Contact Person:	Scott Gilfillan
Project Foreman:	Scott Gilfillan, Home Phone 503-524-7159, Pager 1-888-719-2668
Ambulance Name:	Care Ambulance
Address:	1877 NE 7th, Portland, OR.
Phone No.:	Emergency: **911**, Non-Emergency: 503-288-8426
Fire Dept. Name:	City of Portland Fire Department
Address:	55 SW Ash, Portland, OR.
Phone No.:	Emergency: **911**, Non-Emergency: 503-823-3700
Police Name:	City of Portland Police Dept.
Address:	1111 SW 2nd, Portland, OR.
Phone No.:	Emergency: **911**, Non-Emergency: 503-823-0097
Sheriff Name:	Multnomah County Sheriff
Address:	12240 NE Glisan, Portland, OR.
Phone No.:	Emergency: **911**, Non-Emergency: 503-230-2121
Hospital Name:	Good Samaritan Hospital
Address:	1015 NW 23rd, Portland, OR.
Phone No.:	503-413-7711

Site Specific Work Plan

Site Safety Officer/Supervisor	Scott Gilfillan
Project Coordinator	Roger McGowen

Work Team Members	Scott Gilfillan Jim Layton TCB Laborer (tba)
Subcontractors	N/A

Regulatory Training Requirements

Work Team Members:

Scott Gilfillan - HAZWOPER 1910.120, Confined Space/Confined Space Emergency Rescue Training 1910.146, Lockout/Tagout 1910.147, CPR & First-Aid

Jim Layton - HAZWOPER 1910.120, Confined Space/Confined Space Emergency Rescue Training 1910.146, Lockout/Tagout 1910.47, CPR & First-Aid

Tom Morris - HAZWOPER 1910.120, Confined Space/Confined Space Rescue 1910.146, Lockout/Tagout 1910.147, CPR/First-Aid.

Copies of individuals training certifications, along with expiration dates, are included in the appendixes.

All CET employees assigned to this TOSCO project are enrolled in a Medical Surveillance Program. Employees are given an annual physical, performed by a licensed occupational physician. Copies of employees certifications are included in the appendixes

Work Plan

The site supervisor/foreman will be responsible for all day to day field communications between CET and Tosco Terminals, as well as all reporting, permitting and site safety compliance for the duration of the project. The Supervisor will be responsible for conducting daily safety meetings, and assigning employee tasks, and interfacing with the TOSCO Terminal representatives on site. The site foreman is to make sure that all employees and sub-contractor employees sign in and out every time they enter or exit the terminal. The sign in sheet is located in the TOSCO Maintenance office along with the badges which need to be worn at all times when on TOSCO property.

ALL employees and subcontractors and their employees will be briefed by the CET site supervisor regarding site specific health and safety information, and updating all individuals should anything in the plan change.

CET will mobilize on Monday Nov. 30, 1998, and any employee who has not received the TOSCO Terminal orientation training will do so at this time. The training will be conducted prior to start of any work at the terminal. Any subcontractor coming on site will also receive the orientation training prior to starting his or her scope of work.

TOSCO will provide a copy of the Material Safety Data Sheet (MSDS) for all products that CET will have contact with at the facility. CET will provide TOSCO Terminals with a copy of the MSDS for any product that is brought onto TOSCO Terminals property by CET or it's subcontractors, prior to CET or Subcontractor arrival on site.

The site foreman will make the TOSCO Terminal site representative aware of the scope of work for the following day as it pertains to required permits, so that the TOSCO Terminal representative will have the necessary time needed to complete the permits for the next days activities, i.e.: confined space permits, hot work permits.

Prior to entry into the work area, the site foreman, with the TOSCO Terminal representative present, will take a sample of the atmosphere of the work area. The monitor will be testing for LEL/LFL and Oxygen. No entry will be made into any work area with a detection greater than 5% of the LEL, less than 19.5% oxygen content, or greater than 23% oxygen.

The CET foreman and work team will complete a walk through of the Terminal prior to any work being performed, to become familiar with such safety items as Fire alarm boxes, fire station monitors, telephones for use in an emergency, any hazards along the evacuation routes, emergency showers and eye was stations, Fire extinguishers, etc..

All contractor vehicles will be kept out of the dike areas unless authorized by the TOSCO Terminal representative. A hot work permit will need to be issued by TOSCO Terminal for all vehicles that will be entering into the diked tank farm area. All speed limits will be obeyed while on TOSCO Terminal property.

No smoking will be allowed on TOSCO Terminal property unless authorized by the TOSCO Terminal representative and then only in the pre-designated areas.

Work Site

An attached plan showing the location of the site, boundaries, escape routes and evacuation assembly area is located in the appendixes.

The work area, surrounding any confined space to be entered, will be barricaded off and posted with warning signs to protect unauthorized personnel from entering into this area. The confined space supervisor will be responsible for logging in all entrants entering into a confined space and to prohibit the access of unauthorized personnel.

More in depth detail into Confined Space work is given in the attached Permit Required Confined Space Work Plan.

Upon completion of the work, the site supervisor will notify TOSCO Terminal that the scope of work for the project has been completed and is ready for inspection and final approval. Once the TOSCO Terminal representative has informed the site supervisor that the work is complete and satisfactory, the CET crew will begin demoblization.

At the completion of the project, the CET supervisor and the TOSCO Terminal representative will perform an exit meeting, which will include points such as the success of the project, any safety concerns, and areas of improvements by CET, CET Subcontractors and TOSCO Terminals.

General Safety Requirements

A.) Work Site Plan:

Site plan attached:	YES (X)	NO ( )
Identifies site boundaries:	YES (X)	NO ( )
Identifies escape routes:	YES (X)	NO ( )
Shows evac. assembly areas:	YES (X)	NO ( )
Shows area to be barricaded:	YES (X)	NO ( )

B.) List of required and backup personal protective equipment

Required:

Hard Hats:	YES (X)	NO ( )	
Safety Glasses:	YES (X)	NO ( )	
Steel Toe Boots:	YES (X)	NO ( )	
PVC Raingear w/ hood	YES (X)	NO ( )	
Tyvek	YES (X)	NO ( )	
Laytex inner gloves	YES (X)	NO ( )	
PVC gloves	YES (X)	NO ( )	
Chemical boots, steel toed	YES (X)	NO ( )	
Chemical suit	YES ( )	NO (X)	
Supplied Airline Respirator w/ Escape		YES (X)	NO ( )
Positive pressure SCBA	YES (X)	NO ( )	
Full body harness w/lanyard	YES (X)	NO ( )	
SCBA, 30 minute	YES (X)	NO ( )	
Rescue Tri-Pod w/retrieval system	YES (X)	NO ( )	

C.) Monitoring and Surveillance Equipment

Combustible gas meter	YES (X)	NO ( )
Oxygen meter	YES (X)	NO ( )
Lel meter	YES (X)	NO ( )
H2S	YES ( )	NO (X)
Carbon Monoxide	YES (X)	NO ( )
Lead in air	YES ( )	NO (X)
Benzene Drager Tubes	YES ( )	NO (X)

Fire Emergency Contingency Plan

In the event of a fire emergency, all work will immediately cease. All personnel in the work area will be notified of the emergency (this is to include any other trades working in the area not necessarily involved with the CET project). TOSCO will be immediately notified of the situation and all efforts will be made by CET personnel to extinguish the fire. If the situation surpasses the capability of personnel and or resources on site, the area will be cleared of all personnel and additional outside resources will be notified.

If evacuation of the work area is required, all work is to immediately stop and, if possible, all equipment and power sources will be shut off. The site foreman is to make sure all personnel proceed to the evacuation assembly area without hesitation. Once all employees and subcontractors are in the staging area, the site foreman is to account for all individuals and report to the TOSCO representative that everyone is accounted for. All personnel are to stay in the assembly area until directed by TOSCO Terminal representative to do otherwise.

After the fire emergency has been properly taken care of, the site foreman and TOSCO Terminal representative will investigate the cause. If it is determined that CET or one of the subcontractors is responsible for the accident, all reports will be properly completed and turned into TOSCO Terminal representative within 24 hours of the incident.
No work will resume on the project until the incident has been investigated and the TOSCO Terminal representative has given the authorization to proceed.

Hazardous Material Release Contingency Plan

This plan has been developed to cover any incident involving the release of a hazardous or toxic material, which is a part of this project, should a release occur while at the TOSCO Portland Terminal. The site foreman will be informed immediately of any release.

Should a release occur, all work in the immediate area will stop at once. The site foreman will be notified of the situation immediately. The site foreman will notify all other trades

working in the area to evacuate to the assembly area outlined in the safety plan. The TOSCO Terminal representative will be notified of the situation and all personnel not involved with the response will be evacuated to the staging area. All CET employees are trained under HAZWOPER 1910.120 at the Specialist level. All efforts will be made to approach the release with the intent to stop, patch, plug or otherwise control the release.

The appropriate PPE and respiratory protection to act in this mode will be on site and available for donning if required. Should the release exceed the capabilities of the CET personnel or resources on site, all response personnel will be evacuated to the assembly area and additional outside resources will be notified. It will be the responsibility of the site foreman to account for all personnel and report to TOSCO Terminal representative that everyone is accounted for. No one is to leave the assembly area until notified by the TOSCO Terminal to do so. No work will resume until the situation has been cleaned up properly, an investigation has been conducted as to the cause and all necessary adjustments have been made. The site foreman will be responsible for completing all paper work and necessary reports. All paper work will be turned into TOSCO within 24 hours of the incident. No further activities will resume until the TOSCO Terminal representative has given the authorization to proceed.

Injury Contingency Plan

See attached Confined Space Emergency Rescue Plan

On Site Safety Equipment Checklist

SCBA, 30 minute (2 each)
Full body harness (2 each, in addition to those worn by all confined space entrants)
Nylon line, 1/2" x 100'
LEL/Oxygen meters with calibration kit
Personal protective equipment, level B, C& D
Fire extinguishers, 20 lb. dry chemical
Fire line, 1.5" fully charged
Absorbent pads
Absorbent boom
Non-sparking hand tools
Grounding straps
First Aid kit

Back-up Safety Equipment Checklist

See attached list under Confined Space Emergency Rescue Plan

Plan Approval:

Signature _____ Title _____ Date _____

Signature _____ Title _____ Date _____

CET Environmental
Services, Inc.
P.O. Box 83655, Portland, Oregon 97283
5315 N.W. St. Helens Road, Portland, Oregon 97210
Telephone: (503) 227-5892 Fax: (503) 241-8259

Nov. 28, 1998

Mr.Roger McGowen
TOSCO Distribution Company
5528 NW Doane St.
Portland, OR 97210

Dear Roger:

Enclosed you will find CET's Site Specific Emergency Rescue Plan to be in effect while CET is providing Confined Space Emergency Rescue trained personnel at Tosco's Portland, Oregon Terminal during the decommissioning and cleaning of the 6000 gallon Underground Storage Tank used for storing diesel fuel.

Location of project: TOSCO Terminal
5528 NW Doane St.
Portland, Oregon

Site phone number: (503)248-1558

Names of CET personnel on site: Scott Gilfillan, Jim Layton, TCB Laborer to be announced.

Emergency Services telephone numbers:

- Portland Fire Department: 911 (emergencies) 503-823-3700 (non-emergencies)
- Care Ambulance : 911 (emergencies), 503-288-8426 (non-emergencies)
- Portland Police Dept. : 911 (emergencies) , 503-230-2121 (non-emergencies)
- Multnomah County Sheriff Dept. : 911 (emergencies) , 503-230-2121 (nonemergencies)
- Legacy Good Samaritan Hospital and Medical Center: 1015 NW 22nd Ave. Portland, 97210 503-229-7711.

Rescue Equipment on site during all **Permit Required Confined Space Entry's**

- 2 ea. 30 minute SCBA's (self contained breathing apparatus)
- 2 ea. full body harnesses (in addition to those worn by all workers in confined space)
- 2 ea. Industrial Scientific LEL/ Oxygen meters (calibrated prior to start of each shift)
- 2 ea. 100'x 1/2 " ropes
- 2 ea. Haz. Mat. Permissible Flashlights, UL listed for Classl Group C/D, Class 2
- 2 ea. 20 LB. Fire Extinguishers, Rated Dry Chemical
- First-Aid kit
- 1 ea. Air hom
- Lockout/Tagout equipment
- Confined Space entry board

CET will notify the Portland Fire Department that there will be a Permit Required Confined Space entry made on 11/30/98, and that CET will act as the primary rescue team. CET will notify the fire dept. in the event that a rescue is implemented and if backup is needed, nature of emergency, number of personnel involved, etc..

Prior to entry of confined space, all personnel involved will attend a safety meeting detailing the scope of work while inside the confined space. The entrants and standby personnel will go over pre-determined hand signals to be used during the course of the entry and have a full understanding of what each signal represents and what to do in the event of a needed rescue. CET rescue personnel will utilize hand signals and an air horn for communication with the entrants. At all times that someone is in the confined space, an outside rescue personnel will have a TOSCO company radio and/or a cellular phone on his person. CET will monitor all activity both inside and outside the confined space to assure that only those people directly involved in the project are in the immediate work area.

CET will stage one rescue-trained personnel just outside the entry into the confined space. This person's duty is to keep constant visual communication with the entrant or entrants. At no time will the manhole watch leave this area. He will be ready to enter the confined space in the event that a rescue is required and will have a full body harness and lifeline attached to him, with a fully charged SCBA within easy reach of the manhole and ready to don.

CET will have a second emergency rescue trained person on site at all times, who will also act as the Entry Supervisor. The duty

of this person, in addition to his role as part of the rescue team, will be to monitor activity around the confined space to assure safe working conditions exist and log all personnel during ingress and egress of the confined space. He will also be available to "shag" tools or any thing that the entrants or attendant might need, so long as it does not take him from the work area, thus keeping the attendant at the manhole at all times.

In the event that an emergency rescue is required, the following steps will take place to implement the rescue:

- the manhole watch will notify the entry supervisor that an emergency action is needed, at the same time donning his self-contained breathing apparatus.
- the supervisor will notify a TOSCO representative of the emergency, nature of the emergency and the outside services needed, i.e.: fire, medical , rescue backup.
- the attendant is now ready to enter the confined space and access the situation; the supervisor is at the manhole to act as the attendant.
- a representative of TOSCO should be ready to direct the fire dept. or medical personnel to the tank area once they arrive
- once injured person is removed from confined space or reason for rescue is remedied, all persons in the confined space will be egressed and opening to confined space sealed until it has been determined by TOSCO and others that it is once again safe to resume operations.

The Portland Fire Department will be notified at the conclusion of the project that all PRCS operations are completed.

If you should have any questions, please feel free to contact me at (503)227-6797.

Respectfully,

Scott Gilfillan
CET Environmental Services, Inc.

cc: CET on site Project Supervisor

EPA #ORO 001010289

PUC #206271

STRAIGHT BILL OF LADING

ORIGINAL - NOT NEGOTIABLE

CET ENVIRONMENTAL SERVICES, INC.
5315 NW St. Helens Rd.
Portland, OR 97210
Phone (503) 227-6797 FAX (503) 241-8259

Shipper No. 4442-000

Carrier No. 10564

Date 12-4-98

TO: Consignee Harbor Oil, Inc.	FROM: Shipper Tosco Distribution Co.
Street 11535 N. Force Av.	Street 5518 NW Doane St.
Destination Portland, OR. Zip Code	Origin Portland, OR 97210

Route

Vehicle Number 101008

No. Shipping Units	HM*	Kind of Packaging, Description of Articles, Special Marks and Exceptions	Weight (subject to correction)	Rate	CHARGES
78 g	X	Flammable Liquid, N.O.S., 3, UN1993, PG III (diesel + water)			
		If spill should occur, dike and contain material, then call CET Environmental Services 24 hour spill response at (503) 241-3827.			

REMIT C.O.D. TO: ADDRESS

COD Amt: $

C.O.D. FEE: PREPAID ☐ COLLECT ☐ $

NOTE–Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property.
The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding.
$_____ per _____

This is to certify that the above named materials are properly classified, described, packaged, marked, and labeled, and are in proper condition for transportation according to the applicable regulations of the Department of Transportation.

_____ Signature

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of the shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES: $

FREIGHT CHARGES: FREIGHT PREPAID Check box if charges are to be collect except when box right is checked ☐

RECEIVED, subject to the classifications and lawfully filed tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the bill of lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER Tosco

PER S. C. Hillon Rep. for

CARRIER **CET ENVIRONMENTAL SERVICES, INC.**

PER _____

DATE 12-4-98

*Hazardous Materials

Harbor Oil, Inc.

№ 06021

11535 N. FORCE AVENUE PORTLAND, OREGON 97217
Phone: (503) 285-4648 • Fax: (503) 285-9521

MATERIALS RECEIPT

Generator TOSCO PORTLAND, ORE Date 12-4-98

Address

Transporter CET Purchase Order No 3934

Truck No. 101008 4442.000

Trailer No.

Product DIESEL / H_2O			Gals Loaded	OFFICE USE ONLY Unit Price	
				Product	Sub Total
API	Weight	HAL	Gross Gals		
TEMP	GROSS	DIST	Net Gals 78	Freight	Sub Total
CORR FACTOR	TARE	SW			
WT GAL	NET	SS		Tax	Sub Total
REMARKS:				Hours	Sub Total
				TOTAL	

DRIVER [signature] RECEIVED BY [signature]

White: Customer Canary: Office Pink: Billing Goldenrod: Yard

COPPOR00002440

City of Portland
FIRE PREVENTION DIVISION
55 S.W. Ash Street
Portland, OR 97204 Phone: 823-3712

PERMIT NUMBER: T981517
FEE AMOUNT: $102.30
CODE: 19D(1)

Subject to the compliance with the ordinances of the City of Portland, permission is hereby granted for the installation of:

___ NEW INSTALLATION	___ ADDITION	___ ALTERATION	___ REPAIR	_x_ ABANDON	___ REMOVE
_x_ LIQUIDS/TANKS	___ L.P.G.	___ COMPRESSED GASES	___ PAINT SPRAY BOOTHS	___ CRYOGENS	___ OTHER

Located at: 5528 NW DOAN ST - TOSCO DISTRIBUTION CO

Contractor: CET ENVIRONMENTAL

Permit Issued: 11/30/98 By: DOUG FRIANT Fire Marshal's Office

INSPECTION RECORD: DATE INSPECTOR OTHER

FINAL APPROVAL

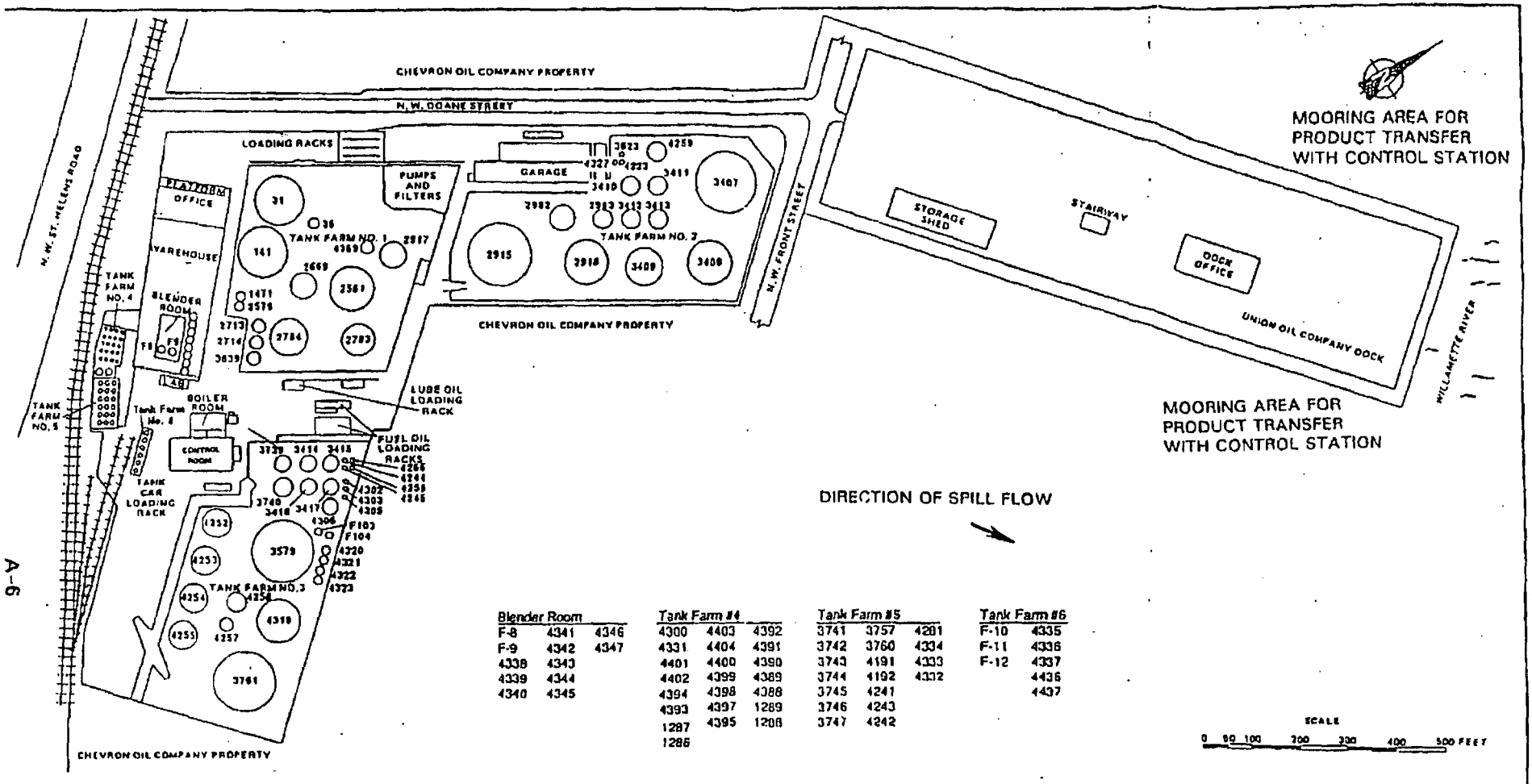
APPROVE TANK/CYLINDER LOCATION _____
APPROVE PIPING AND VALVES _____ INSPECTOR:
PRESSURE TEST WITNESSED _____ DATE:
OK TO COVER _____

NOTE: Keep card conspicuously posted on premises until job is completed and final inspection made. Request for final inspection must be made within 14 days after completion of work. Permit valid for 180 days only

Received of: CET ENVIRONMENTAL The sum of: ONE HUNDRED TWO DOLLARS & 30/100----------

Date: 11/30/98 By: Norma Scott Paid Amount: $ 102.30 ___ Cash _X_ Check 3409

COPPOR0002441



Blender Room		
F-8	4341	4346
F-9	4342	4347
4338	4343	
4339	4344	
4340	4345	

Tank Farm #4		
4300	4403	4392
4331	4404	4391
4401	4400	4390
4402	4399	4389
4394	4398	4388
4393	4397	1289
1287	4395	1288
1286		

Tank Farm #5		
3741	3757	4201
3742	3760	4334
3743	4191	4333
3744	4192	4332
3745	4241	
3746	4243	
3747	4242	

Tank Farm #6	
F-10	4335
F-11	4336
F-12	4337
	4436
	4437

TANK FARMS 1, 2, & 3
TRANSFER LOCATIONS

PLOT PLAN

UNOCAL
PORTLAND TERMINAL
PORTLAND, OREGON

FIGURE A-2

A-6

COPPOR0002442

CET ENVIRONMENTAL SERVICES, INC.

Previously removed gas UST

Sheet Number _____ of _____

Date _____

Job Number _____

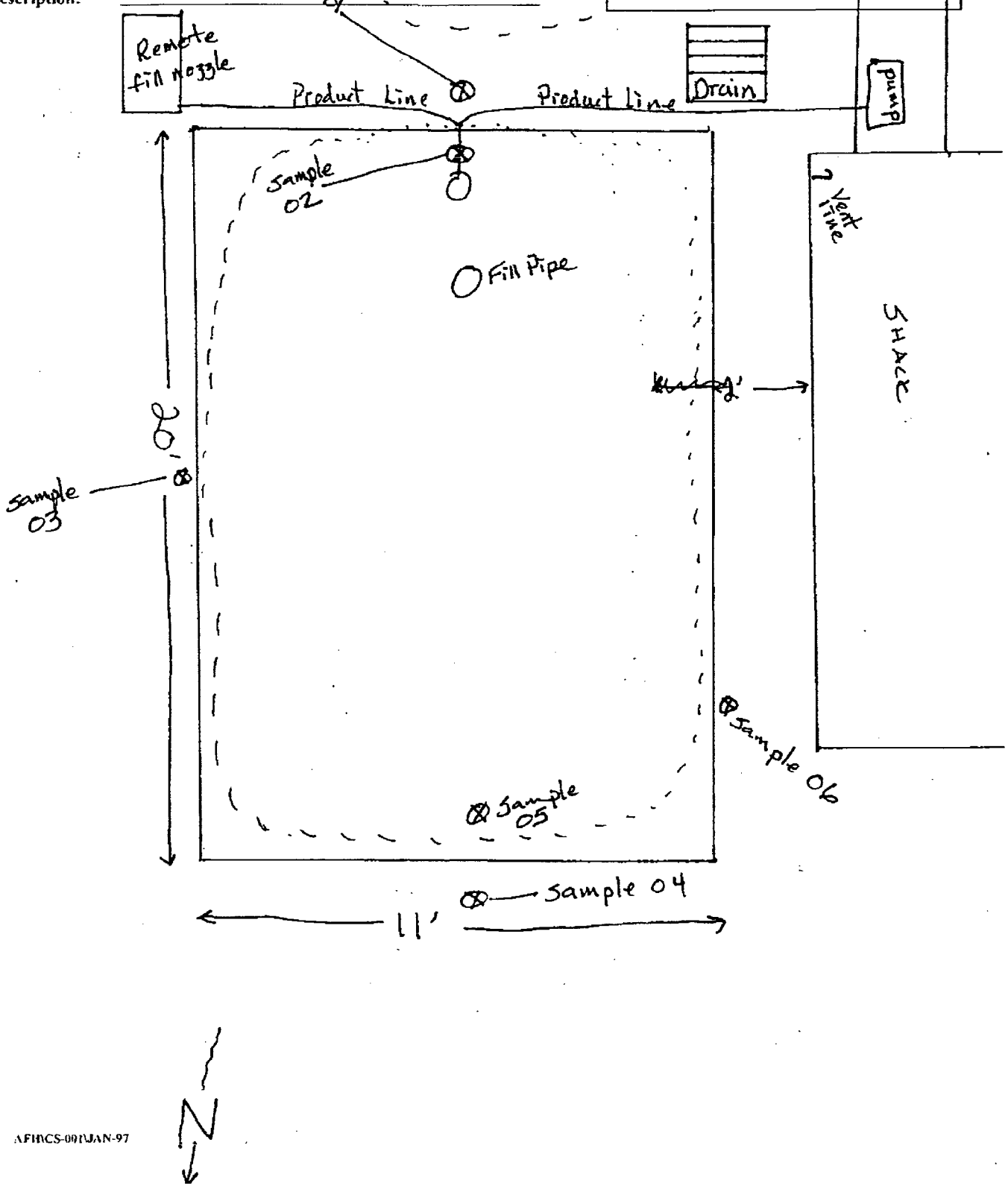
Computed by _____

Checked by _____

Project: _____

Name of Client: _____

Description: _____



N

AFH\CS-001\JAN-97

COPPOR00002443

CET ENVIRONMENTAL SERVICES, INC.

Sheet Number 1 of 1
Date Wed. 12/9/98
Job Number 4442-000
Computed by
Checked by

Project: Tosco Portland Diesel UST
Name of Client: Tosco Distribution Co.
Description: Field Notes of Geo-Probe.

Sample #01 So. Wall - sample collected 16" from So. end of UST. Drill thru concrete. No odor in soil/ Sample collected @ 7'6" bgs. @ 0950 hrs.

Sample #02 Bottom of UST, So. End. Bottom of tank @ 11' bgs. pea gravel from 11-15' bgs.
Sand (medium) + silts below 15'. No odor
sample collected @ 15'10½" bgs @ 1020 hr.

Sample #03 East Wall - drill thru asphalt, 20" east of side of UST. gravel w/ odor. Collect sample @ 7'7" bgs @ 1033 hr.

Sample #04 Northwall - drill thru asphalt, 13" north of excavated area, north end of UST. gravels from surface down to 10'6" bgs. medium sands/silt below 10'6". Sample collected @ 11'6" bgs @ 1055 hrs. Hydrocarbon odor.

Sample #05 Bottom of UST, north end of tank. Sample collected @ 15'1" bgs. sands/silt. Had hydrocarbon odor; was moist. 1120 hrs.

Sample #06 West Wall, drill through asphalt 20" w. of west edge of UST. 6'9" So. of north edge of excavation. Sample collected @ 11'5" bgs. Sand (medium), no odor.

CERTIFICATE OF ANALYSIS

CLIENT: CET ENVIRONMENTAL
5315 NW ST. HELENS RD.
PORTLAND OR 97210

PHONE: (503) 227-6797
FAX: (503) 241-8259

DATE SUBMITTED: 12/09/98

PROJECT NAME: TOSCO - PORTLAND

CI SAMPLE #	CLIENTS ID#	DATE	TIME	DESCRIPTION
981758-001	01-4442	12/09/98	0950	So. Wall @ 7'6" Depth
981758-002	02-4442	12/09/98	1020	So. Bottom UST 15'10"
981758-003	03-4442	12/09/98	1033	East Wall @ 7'7"
981758-004	04-4442	12/09/98	1055	North Wall @ 11'6"
981758-005	05-4442	12/09/98	1120	North Bottom UST @ 15'1"
981758-006	06-4442	12/09/98	1135	West Wall @ 11'5"

REPORT DATE: 12/11/98 REPORT NUMBER: 981758 PAGE: 1 OF 3

SAMPLE	ANALYSIS	PARAMETER	RESULT	UNIT	DETECTION LIMIT	ANALYST
So. Wall @ 7'6" Depth 01-4442						
981758-001	TPH-HCID	GASOLINE	ND	PPM	13	Abigail K.
	OAR-DEQ TPH-HCID	DIESEL	DETECTED	PPM	25	
		OIL AND GREASE	DETECTED	PPM	100	
		SURROGATE	69	% RECOVERY	50-150	
981758-001	TPH - SOIL EPA 418.1M	PETROLEUM HYDROCARBONS	260	PPM	5.0	Abigail K.
981758-001	TPH-D OAR-DEQ TPH-D	TPH AS DIESEL	120	PPM	25	Abigail K.
		SURROGATE	69	% RECOVERY	50-150	
So. Bottom UST 15'10" 02-4442						
981758-002	TPH-HCID	GASOLINE	ND	PPM	13	Abigail K.
	OAR-DEQ TPH-HCID	DIESEL	ND	PPM	25	
		OIL AND GREASE	DETECTED	PPM	100	
		SURROGATE	70	% RECOVERY	50-150	

REVIEWED BY:
Richard D. Reid - Laboratory Director

CERTIFICATE OF ANALYSIS

REPORT DATE: 12/11/98 REPORT NUMBER: 981758 PAGE: 2 OF 3

SAMPLE	ANALYSIS	PARAMETER	RESULT	UNIT	DETECTION LIMIT	ANALYST
So. Bottom UST 16'10"						
02-4442						
981758-002	TPH - SOIL EPA 418.1M	PETROLEUM HYDROCARBONS	96	PPM	5.0	Abigail K.
East Wall @ 7'7"						
03-4442						
981758-003	TPH-HCID	GASOLINE	ND	PPM	13	Abigail K.
	OAR-DEQ TPH-HCID	DIESEL	DETECTED	PPM	25	
		OIL AND GREASE	ND	PPM	100	
		SURROGATE	76	% RECOVERY	50-150	
981758-003	TPH-D	TPH AS DIESEL	130	PPM	25	Abigail K.
	OAR-DEQ TPH-D					
		SURROGATE	76	% RECOVERY	50-150	
North Wall @ 11'6"						
04-4442						
981758-004	TPH-HCID	GASOLINE	ND	PPM	13	Abigail K.
	OAR-DEQ TPH-HCID	DIESEL	DETECTED	PPM	25	
		OIL AND GREASE	DETECTED	PPM	100	
		SURROGATE	80	% RECOVERY	50-150	
981758-004	TPH - SOIL EPA 418.1M	PETROLEUM HYDROCARBONS	3200	PPM	125	Abigail K.
981758-004	TPH-D	TPH AS DIESEL	210	PPM	25	Abigail K.
	OAR-DEQ TPH-D					
		SURROGATE	80	% RECOVERY	50-150	
North Bottom UST @ 15'1"						
05-4442						
981758-005	TPH-HCID	GASOLINE	DETECTED	PPM	13	Abigail K.
	OAR-DEQ TPH-HCID	DIESEL	DETECTED	PPM	25	
		OIL AND GREASE	DETECTED	PPM	100	
		SURROGATE	75	% RECOVERY	50-150	
981758-005	TPH-G	TPH AS GASOLINE	110	PPM	13	Abigail K.
	OAR-DEQ TPH-G					
		SURROGATE	75	% RECOVERY	50-150	

CERTIFICATE OF ANALYSIS

REPORT DATE: 12/11/98 REPORT NUMBER: 981758 PAGE: 3 OF 3

SAMPLE	ANALYSIS	PARAMETER	RESULT	UNIT	DETECTION LIMIT	ANALYST
North Bottom UST @ 15'1"						
08-4442						
981758-005	TPH-D	TPH AS DIESEL	640	PPM	25	Abigail K.
	OAR-DEQ TPH-D					
		SURROGATE	75	% RECOVERY	50-150	Abigail K.
981758-005	TPH - SOIL	PETROLEUM HYDROCARBONS	1200	PPM	125	Abigail K.
	EPA 418.1M					
West Wall @ 11'5"						
08-4442						
981758-006	TPH-HCID	GASOLINE	ND	PPM	13	Abigail K.
	OAR-DEQ TPH-HCID	DIESEL	ND	PPM	25	
		OIL AND GREASE	ND	PPM	100	
		SURROGATE	76	% RECOVERY	50-150	

COLUMBIA INSPECTION, INC.

CHAIN OF CUSTODY RECORD

Laboratory • Inspection • Tank Calibration

Environmental • Petroleum • OR Certified Water Analysis

☒ 7133 N. Lombard, Portland, OR 97203 Ph: (503) 286-9464 Fax: (503) 285-7831

☐ 4901 E. 20th Street, Fife, WA 98424 Ph: (253) 922-8781 Fax: (253) 922-8957

☐ 613 Escobar Street, Martinez, CA 94553 Ph: (510) 229-0360 Fax: (510) 229-2821

☐ 790 Basin Street, Unit #2, San Pedro, CA 90731 Ph: (310) 833-1557 Fax: (310) 833-1585

Customer Name: CET Environmental

Attention: Scott Gilfillan

Address: P.O. Box 83655

Portland, Or. 97283-0655

Phone: (503) 227-5892

FAX: (503) 241-3259

Sampler: Scott Gilfillan ☐ Submitted

Project Name: Tosco Portland

Project Number: 4442-000

P.O. Number: 05-98-P-2645

Testing Priority: ☐ Standard ☒ Rush

Notification Method(s): ☐ Telephone ☐ FAX ☐ Mail

Due Date: _____

Sample id#	Sample Description	Sample Matrix	Sample Date	Sample Time	Analyses To Be Performed: TPH-HCID	Quantify Detectables
01-4442	So. Wall @ 7'6" depth	soil	12/9/98	0950	✓	✓
02-4442	So. Bottom UST @ 15'10"	soil	12/9/98	1020	✓	✓
03-4442	East Wall @ 11'7"	soil	12/9/98	1033	✓	✓
04-4442	North Wall @ 11'6"	soil	12/9/98	1055	✓	✓
05-4442	North Bottom UST @ 15'1"	soil	12/9/98	1120	✓	✓
06-4442	West Wall @ 11'5"	soil	12/9/98	1135	✓	✓
		~~soil~~				

Relinquished By:	Received By:	Date/Time
Signature: Scott Gilfillan	Signature: Richard O'Rear	12/9/98 1345
Printed Name: Scott Gilfillan	Printed Name:	
Relinquished By:	Received By:	Date/Time
Signature:	Signature:	
Printed Name:	Printed Name:	

FOR LABORATORY USE ONLY

Inspection Job Number: _____ ☐ Visa _____

Laboratory Project Number: _____ ☐ Cash/Check # _____

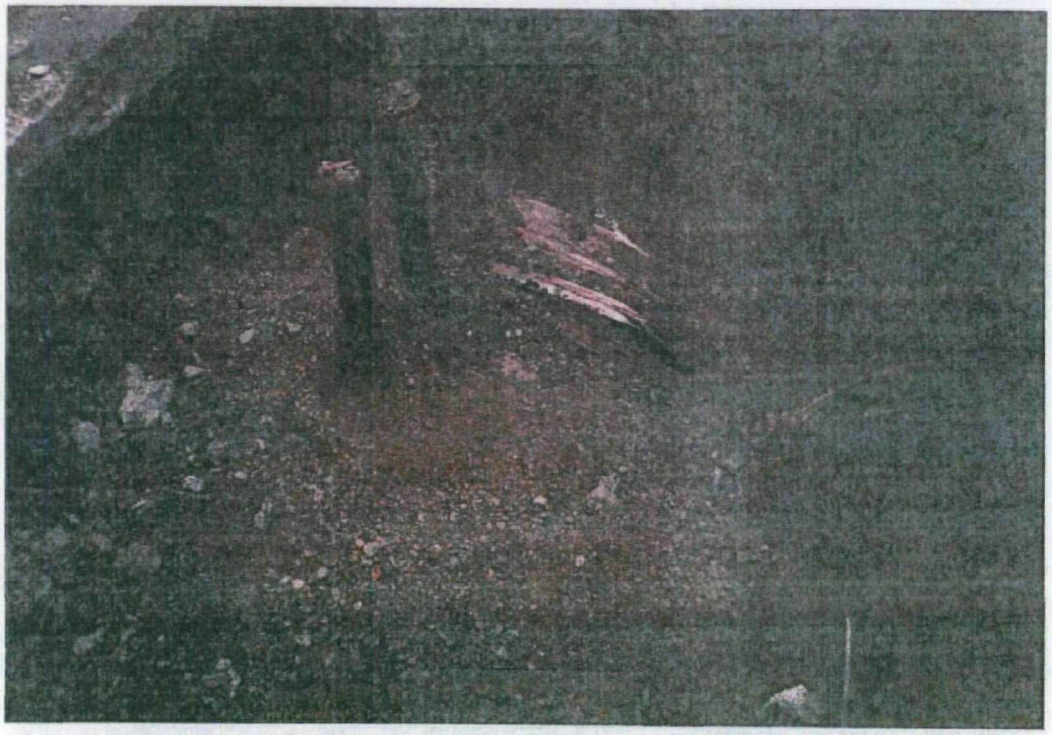
Overtime authorized ☐ Yes ☐ No Amount Paid: $ _____

White Copy - Laboratory Yellow Copy - Client Copy

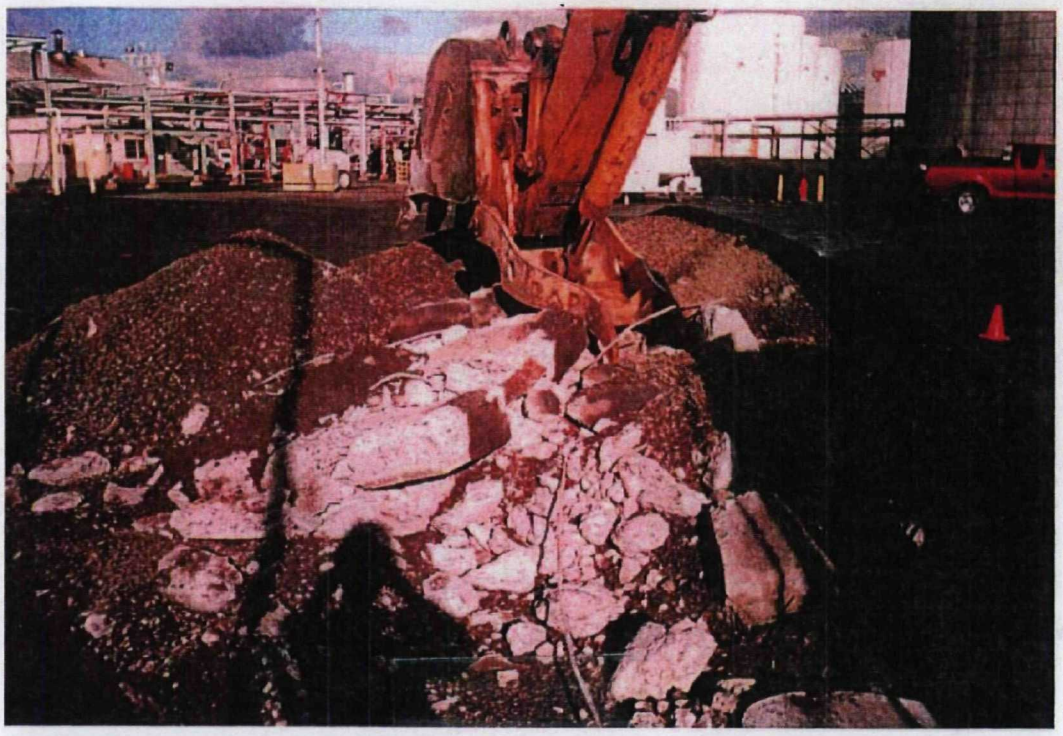
CI Form 100 (COC) Rev B

COPPOR0002448

Concrete + Rebar slab covering UST.



Fill pipes + top of fiberglass UST.



Concrete & soil from top of tank.

Top of fiberglass UST. Inside of tank was cleaned first, than top was ripped out.

Top of tank prior to filling with gravel.

Tank after gravel backfill.

Top of tank after backfilling with gravel.

Backfilled excavation

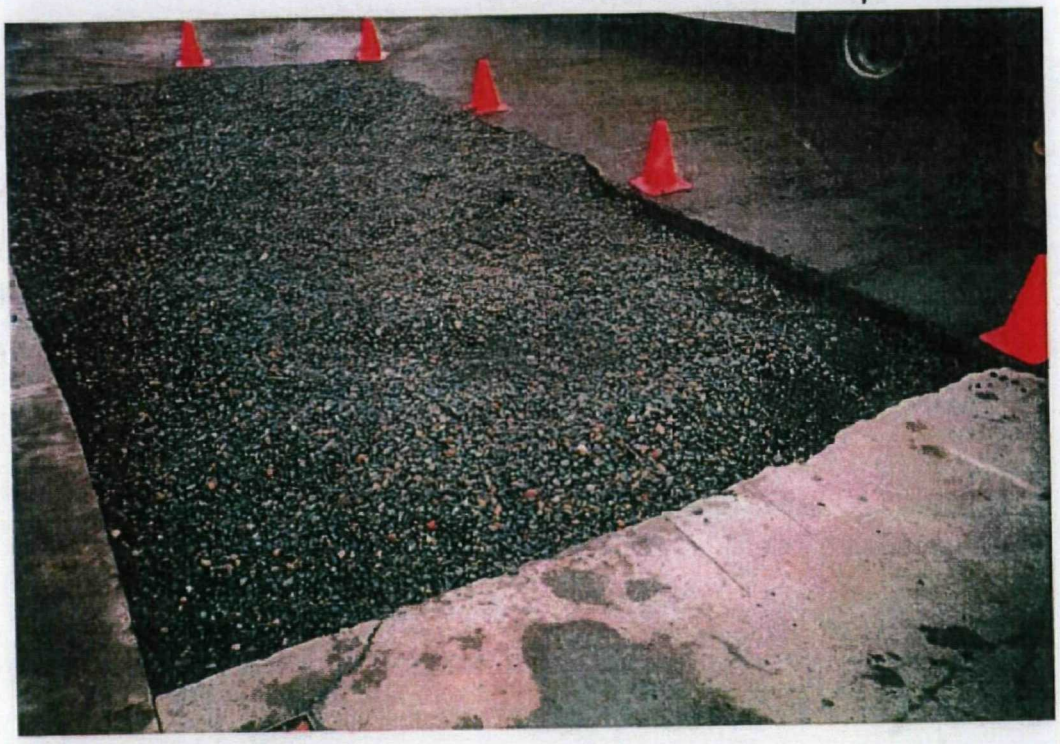
picture of how undermining excavation was.

This was where Sattelite fill nozzle was.

Undermining along East Wall.

Pump dispenser on main side, w/ lines disconnected.

Backfilled ↑ prior to paving.



July 7, 1997

Oregon

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

NORTHWEST REGION

ROGER MCGOWNE
TOCSO CORPORATION, NORTHWEST
5528 NW DOANE STREET
PORTLAND OREGON 97210

RE: UST Facility #1203
Tosco Corp., Northwest (Unocal)
Decommissioning Sampling Plan

Dear Mr. McGowne:

The Oregon Department of Environmental Quality (DEQ) has reviewed the proposed sampling plan for decommissioning underground storage tanks (USTs) in place at Tosco Corp. Northwest (Unocal) at 5528 N. W. Doane Street in Portland, Oregon.

The sampling plan was submitted on July 3, 1997, on your behalf by Olympus Environmental, Inc. The sampling is approved with the following conditions:

1. The sampling plan fails to mention your intentions regarding the fate of product lines/piping. If the product lines/piping are to remain in-place, samples should be collected from the native soils directly beneath the areas where contamination may be suspected or at 20 lateral foot intervals.

2. Contingency plans should be instituted if groundwater is encountered during the investigation. Be aware that soil matrix rules do not apply if groundwater is encountered. If water is present in the borings, regardless of whether obvious contamination is or is not present, the DEQ must be notified.

3. The sampling plan proposed that interval soil sampling be conducted one to two feet below the floor of the USTs. DEQ requires that retrieved samples be continuously monitored for the presence of a release. The proposed sampling interval or the most heavily impacted samples shall be collected for laboratory analysis.

4. DEQ understands that UST #ADFHD contained D/O (diesel oil?) #2 additive. Please be advised that additional laboratory analysis may be necessary to assess for the presence of a release on this tank. We suggest you review the sampling procedures and the Material Safety Data Sheet (MSDS) to appropriately assess for the presence of hazardous substances in the decommissioning. Please submit the D/O #2 additive, MSDS with the decommissioning reports.

John A. Kitzhaber
Governor

2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471
DEQ-1

5. In regards to USTs #ADFHH (used oil) and #ADFJC (slop oil), please be advised that Oregon Administrative Rule 340-122-340(6) specifies that in situations where TPH analysis indicates that contamination is present due to a release from a used oil tank, at least one sample must be collected and analyzed for volatile chlorinated solvents, volatile aromatic solvents, and leachable metals (cadmium, chromium, and lead) using the analytical methods specified in 340-122-350. Analysis for PCBs is also required if the contamination is from a waste oil tank other than one used exclusively for storage of automotive waste oils.

6. The plan is silent on reporting procedures if contamination is discovered. If contamination is discovered and is inaccessible because of structural limitations, it will be necessary to characterize the full extent and degree of contamination. This characterization should delineate the lateral and vertical extent of the remaining pocket of contamination. Please address how this assessment will be completed for this decommissioning.

7. The UST permit database for facility #1203 indicates that Unocal is the permitee, owner, and property owner. However, the submitted Notice of UST Permanent Decommissioning/Service Change Report indicates that Tosco Corporation, Northwest is the facility and tank owner.

   If UST permit data for the facility has changed, please complete and submit a modified UST permit application (enclosed) to enable DEQ to reflect the correct contacts. Oregon Administrative Rule 340-150-020(4) states that permits are issued to the person designated as the permitee for the activities and operations of record and shall be automatically terminated within 120 days after the change of ownership of property in which the tank is located, ownership of tank or permitee unless a new UST permit application is submitted.

8. As requested, DEQ approves waiver of the 30-day noticification period. However, a verbal notice must be provided to the UST Duty Officer at (503) 229-5489, at least 3-working days prior to beginning the UST decommissioning. This notice will enable the DEQ an opportunity to document the decommissioning operations and provide any technical assistance necessary.

9. Upon completion of the decommissioning closure documents shall be submitted to the DEQ.

10. Please verify USTs #ADFHE (6,000 gallon diesel) and #ADFJB (5,000 gallon flush oil) will remain active at this facility. Permit DEQ to remind you of the December 22, 1998, deadline to upgrade/replace or decommission USTs which don't meet cathodic protection, overfill/spill, leak detection, and financial responsibility requirements. For your information, I have enclosed the document "Don't Wait Until 1998".

Tosco:rhr

We appreciate your efforts to close and operate your tanks in accordance with the regulations. If you have any questions regarding this matter, please call me at (503)229-5472.

Sincerely,

Richard H. Rose
UST Compliance Specialist
Northwest Region

cc: Stephanie Holmes/Greg Toran - ODEQ/HQ/UST
[redacted]
Olympus Environmental, Inc.
12755 North East Marx Street
Portland, OR. 97230

Tosco:rhr

OLYMPUS
ENVIRONMENTAL, INC.

July 3, 1997

Department of Environmental Quality
UST Program - Duty Officer
811 SW Sixth Avenue
Portland, Oregon 97204

Re: **UST Decommissioning Notice**
Decommission UST in Place Sampling Plan
Request for Waiver on 30 day Notice
TOSCO Corp. Northwest, DEQ Facility # 1203

Dear Duty Officer:

Olympus Environmental, Inc. (Olympus) has been contracted by TOSCO Corporation (formerly UNOCAL) to decommission six underground storage tanks (USTs) located at 5528 N.W. Doane Street, Portland, Oregon.

Attached is the "30 Day Notice of Underground Storage Tank Permanent Decommissioning".

Three of the six USTs will be decommissioned in Place. The following is the **"Sampling Plan"** for the three USTs to be decommissioned in Place;

- remove remaining product in USTs;
- enter and clean the USTs;
- bore two holes in the floor of each UST (one below the fill pipe and one at the opposite end);
- soil samples will be obtained approximately one to two feet below the floor of the USTs;
- samples will be obtained using standard industry protocol;
- each soil sample will be analyzed for Total Petroleum Hydrocarbon Identification (TPH-HCID) per DEQ Method TPH-HCID; and,
- Following receipt of laboratory analysis DEQ will be notified of results prior to filling USTs with slurry.

TOSCO has a construction project and maintenance scheduled (week of July 21) around the decommissioning of these USTs. TOSCO requested that a waiver be granted on the 30 day notice, providing all permit fees are current and sampling plan is approved.

Please review the above sampling plan for the USTs to be decommissioned in place and request for a waiver on the 30 day notice.

If you have any questions please call me 254-7400.

Sincerely

Bob Janak
Project Manager

P1641-DEQ1

Oregon Department of Environmental Quality

NOTICE OF UNDERGROUND STORAGE TANK PERMANENT DECOMMISSIONING/SERVICE CHANGE

FACILITY (Location of Tanks)

Name: Tosco Corp., Northwest (UNOCAL)

Address: 5528 N.W. Doane Street
Portland, Or. 97210

Phone: 503/248-1558

DEQ Facility I.D. Number: 1203

TANK OWNER

Name: Tosco Corp., Northwest (UNOCAL)

Address: 5528 N.W. Doane Street
Portland, Or. 97210

Phone: 503/248-1558

Work To Be Performed By: Olympus Environmental License # 11633
(Owner or Licensed Service Provider)

Phone: 503/254-1400 Mobile Phone: 503/539-1619

FORM MUST BE SUBMITTED BY UST OWNER OR OPERATOR 30 DAYS BEFORE START OF WORK

YOU MUST CONTACT YOUR LOCAL DEQ REGIONAL OFFICE 3-DAYS BEFORE STARTING ANY DECOMMISSIONING WORK. (Phone numbers are listed on reverse)

Will tank removal or potential cleanup affect adjacent property or Right-of-Way property? Yes ____ No ✓

Date decommissioning is scheduled to begin: 8/4/92

Tank #	DEQ UST Permit	Tank Size in (Gallons)	Product: Gasoline, Diesel, Used Oil, Other?		Closure or Service Change?			Tank to be Replaced?	
			Present	New	Tank Removal	Closure∞ Inplace	New ∞ Product	Yes*	No
#1	ADFHF	550	Diesel	Loading Rack	YES	—			X
#2	ASFHH	600	Used Oil	Garage	—	YES			X
#3	ADFJK	1000	Gasoline	Fuel Island	YES	—			X
#4	ADFJA	550	Gasoline	—	YES	—			X
#5	ADFJC	5000	Slop Oil	Not Removed	—	YES			X

* If decommissioned tank(s) are to be replaced by new underground storage tanks you must submit a new permit application containing information on the new tanks 30 days before placing them in service.

∞ Submit a soil sampling plan to the DEQ regional office and receive plan approval prior to starting work if 1) tank is to be decommissioned in-place, 2) tank contents are changed to a non-regulated substance, or 3) tank contains a regulated substance other than petroleum.

Signature: Bob Jarvis (Olympus) Date: 7-3-92
(Owner or Operator)

Oregon Department of Environmental Quality

NOTICE OF UNDERGROUND STORAGE TANK PERMANENT DECOMMISSIONING/SERVICE CHANGE

FACILITY (Location of Tanks)

Name: Tosco Corp., Northwest (UNOCAL)

Address: 5528 N.W. Doane Street
Portland, Or. 97210

Phone: 503/248-1558

TANK OWNER

Name: Tosco Corp., Northwest (UNOCAL)

Address: 5528 N.W. Doane Street
Portland, Or. 97210

Phone: 503/248-1558

DEQ Facility I.D. Number: 1203

Work To Be Performed By: Olympus Environmental (Owner or Licensed Service Provider) License # 11633

Phone: 503/254-1400 Mobile Phone: 503/539-1619

FORM MUST BE SUBMITTED BY UST OWNER OR OPERATOR 30 DAYS BEFORE START OF WORK

YOU MUST CONTACT YOUR LOCAL DEQ REGIONAL OFFICE 3-DAYS BEFORE STARTING ANY DECOMMISSIONING WORK. (Phone numbers are listed on reverse)

Will tank removal or potential cleanup affect adjacent property or Right-of-Way property? Yes ____ No ✓

Date decommissioning is scheduled to begin: 8/4/97

Tank #	DEQ UST Permit	Tank Size in (Gallons)	Product: Gasoline, Diesel, Used Oil, Other?		Closure or Service Change?			Tank to be Replaced?	
			Present	New	Tank Removal	Closure∞ Inplace	New ∞ Product	Yes*	No
#6	ADFHD	550	D#2 Additive	—	—	YES			X

* If decommissioned tank(s) are to be replaced by new underground storage tanks you must submit a new permit application containing information on the new tanks 30 days before placing them in service.

∞ Submit a soil sampling plan to the DEQ regional office and receive plan approval prior to starting work if 1) tank is to be decommissioned in-place, 2) tank contents are changed to a non-regulated substance, or 3) tank contains a regulated substance other than petroleum.

Signature: Bob Jarvis (Olympus) Date: 7-3-97
(Owner or Operator)

PORTLAND TERMINAL TANKS TO BE REMOVED OR REMEDIATION IN PLACE

	ITEM # 1	ITEM # 2	ITEM # 3	ITEM # 4	ITEM # 5	ITEM # 6
Tank #	0608-0200-3-2	0608-0200-4	0608-0200-5	0608-0200-5-2	0608-0200-8-2	0608-0200-10
Permit #	ADFHF	ASFHH	ADFJK	ADFJA	ADFJC	ADFHD
Installed	1980	1986	1980	1980	1981	1980
Product	Diesel # 2	Used Oil	Gasoline	Gasoline	Slop Oil	D # 2 Additive
Capacity	550	600	1000	550	5000	550
Location	Refined Rack	Garage	Fuel Island	Refined Rack	Under Lab	Refined Rack
Constr-uction	Steel	Fiberglass	Fiberglass	Steel	Steel	Steel
Interior Coating	None	None	None	None	None	None
Exterior Coating	Asphaltic Coating	Fiberglass	Fiberglass	Fiberglass	Asphaltic Coating	Asphaltic Coating
Laying Direction	North/South Bottom Of Tank 89	North/South Bottom Of Tank 78	East/West Bottom Of Tank 85	North/South Bottom Of Tank 93	North / South	North / South Bottom Of Tank 67

CONTRACTOR WILL BE RESPONSIBLE FOR ALL SOIL SAMPLING DURING REMEDIATION PROCESS

CONTRACTOR WILL BE RESPONSIBLE FOR PERMITS NECESSARY FOR REMOVAL AND REDEMPTION OF EACH TANK

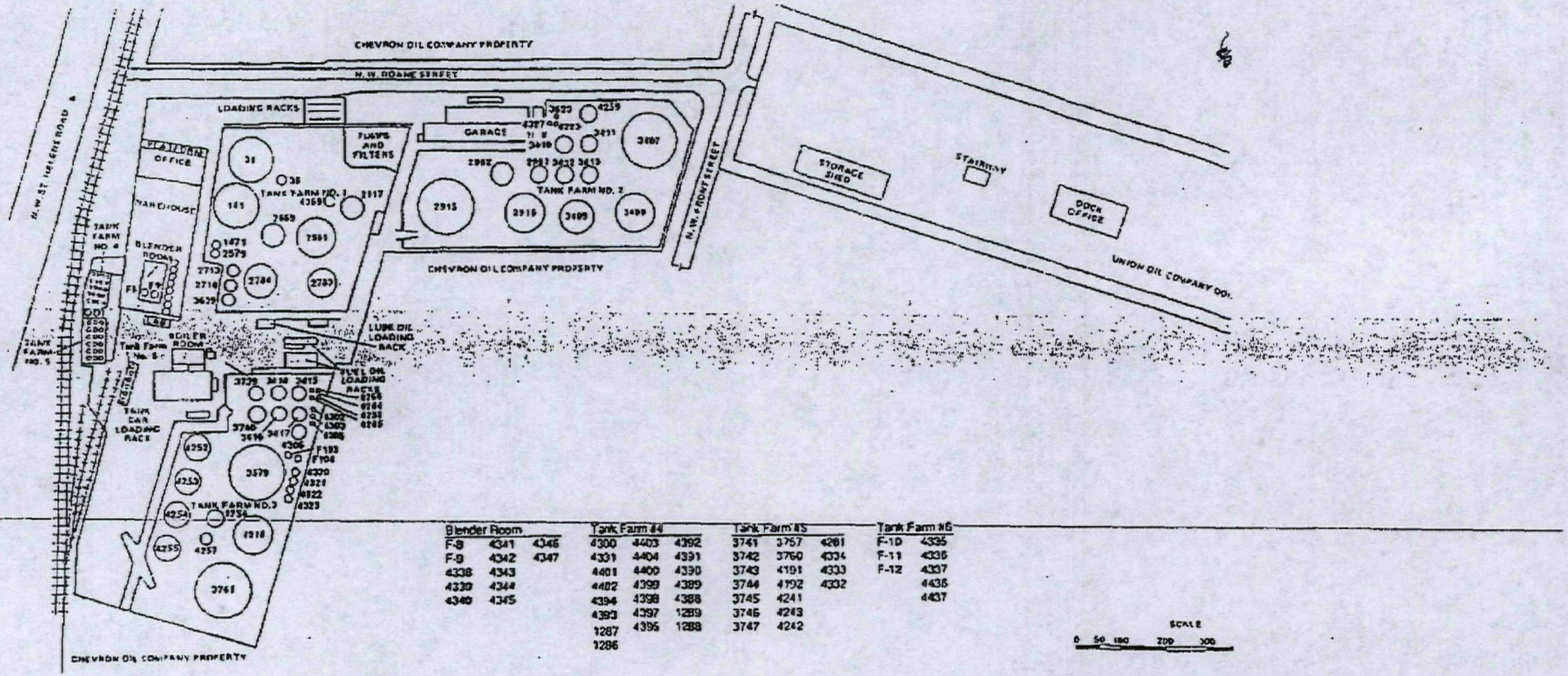
ALL WORK WILL BE PERFORMED DURING NORMAL WORKING HOURS

CONTRACTOR WILL NEED TO MEET THE MINIMUM INSURANCE REQUIREMENTS WITH DOCUMENTATION

CONTRACTOR AND CONTRACTOR EMPLOYEES WILL BE REQUIRED TO FOLLOW ALL TERMINAL SAFETY RULES

CONTRACTOR WILL NEED TO DOCUMENT ALL WORK PERFORMED DURING EACH WORKING DAY UNTIL EACH PROJECT IS COMPLETED

CONTRACTOR WILL NEED TO HAVE DOCUMENTATION OF TRAINING RECORDS FOR EMPLOYEES HAZARDOUS AWARENESS TRAINING CURRENT



Blender Room		
F-8	4341	4346
F-9	4342	4347
4338	4343	
4339	4344	
4340	4345	

Tank Farm #4		
4300	4403	4392
4301	4404	4391
4401	4400	4390
4402	4399	4389
4394	4398	4388
4393	4397	1289
1287	4395	1288
1286		

Tank Farm #5		
3741	3757	4281
3742	3760	4334
3743	4191	4333
3744	4192	4332
3745	4241	
3746	4243	
3747	4242	

Tank Farm #6	
F-10	4335
F-11	4336
F-12	4337
	4438
	4437

SCALE
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Oregon Department of Environmental Quality

UNDERGROUND STORAGE TANK DECOMMISSIONING/SERVICE CHANGE REPORT

DEQ FACILITY NUMBER: 1203 DATE: 8-4-97

FACILITY NAME: Tosco Corp. (Unocal)

FACILITY ADDRESS: 5528 N.W. Doane Ave.
Portland, Or. 97210

PHONE: 503/248-1558

The following information **MUST** be submitted by the underground storage tank owner, operator or licensed DEQ Supervisor within 30 days following completion of the tank decommissioning or changing tank contents to a non-regulated substance. (OAR 340-150-001 though -150)

The attached supplemental checklist should be prepared by the person performing the decommissioning. The checklist should be provided to DEQ and the tank owner to demonstrate that all required practices were followed.

Ordinarily the checklist is filled out by the DEQ licensed Service Provider or Supervisor. Owners who wish to personally decommission a tank must follow all DEQ and other applicable standards. The owner should contact the DEQ Regional Office prior to starting the decommissioning to receive current copies of underground storage tank regulations.

A. DATES:

Decommissioning/Service Change Notice - Date Submitted: 7-3-97 (30 days before work starts)

Work Start Telephone Notice - Date Submitted: 7-18-97 (3 working days before work starts)

DEQ Person Notified: Steve Hooper 26-30-97-77

Date Work Started: 8-4-97

Date Work Completed: 8-2-97

Note: Provide the following information if any soil or water contamination is found during the decommissioning. Contamination must be reported by the UST owner or operator within 24 hours. The licensed service provider must report contamination within 72 hours after discovery unless previously reported.

Date Contamination Reported: 8-4-97 By: Bob Janak

DEQ Person Notified: Mitch Scheel 26-97-0577

Backfill Telephone Notice - Date Called: 8-4-97 (before backfilling)

DEQ Person Notified: Mitch Scheel

B. PERMITS:

Note: DEQ permits or an addendum to the UST permit(s) may be needed where soil or water cleanup is required.

DEQ Water Discharge Permit #: NA Date: NA

Disposed to (Location): NA

DEQ Solid Waste Disposal Permit #: NA Date: NA

B. PERMITS (Continued)

UST Soil Treatment Permit Addendum - Type: NA Date: NA

Soil Disposal or Treatment Location: NA

C. TANK INFORMATION:

Tank #	DEQ UST Permit	Tank Size in (Gallons)	Product: Gasoline, Diesel, Used Oil, Other?		Closure or Service Change?			Tank to be Replaced?	
			Present	New	Tank Removal	Closure∞ Inplace	New ∞ Product	Yes*	No
#1	ADFHF	550	Diesel	—	YES	—	—		X
#2	ASFHH	600	USED Oil	—	—	YES	—		X
#3	ADFJK	1000	Gasoline	—	YES	—	—		X
#4	ADFJA	550	Gasoline	—	YES	—	—		X
#6	ADFHD	550	D#2 Additive	—	—	YES	—		X

Note. #5 - ADFJC - 5000 gal - Slop Oil UST was left in Service

* Where decommissioned tank(s) are replaced by new underground storage tanks the UST owner or operator must submit a new permit application containing information on the new tanks 30 days before placing them in service.

∞ Submit a soil sampling plan to the DEQ regional office and receive plan approval prior to starting work if 1) tank is to be decommissioned in-place, 2) tank contents are changed to a non-regulated substance, or 3) tank contains a regulated substance other than petroleum.

D. DISPOSAL INFORMATION:

Tank #	Tank & Piping Disposal Method				Disposal Location of Tank Contents *	
	Scrap	Land-fill	Other	Identify Location & Property Owner	Liquids	Sludges
#1	X			Oregon Pacific Steel Portland, OR	ON-Site Tosco, Portland, OR	NA
#2			In Place	NA	ON Site Tosco, Portland, OR	NA
#3	X			, OR.	ON Site Tosco, Portland, OR	NA
#4	X			Oregon Pacific Steel Portland, OR	ON Site Tosco, Portland, OR	NA
#6			In Place	NA	ON Site Tosco, Portland, OR	NA

* Note: The tank contents, the tank and the piping may be subject to the requirements of Hazardous Waste regulations. If you have questions, contact the DEQ Hazardous Waste Section at (503) 229-5913 or DEQ regional office hazardous waste staff.

E. CONTAMINATION INFORMATION:

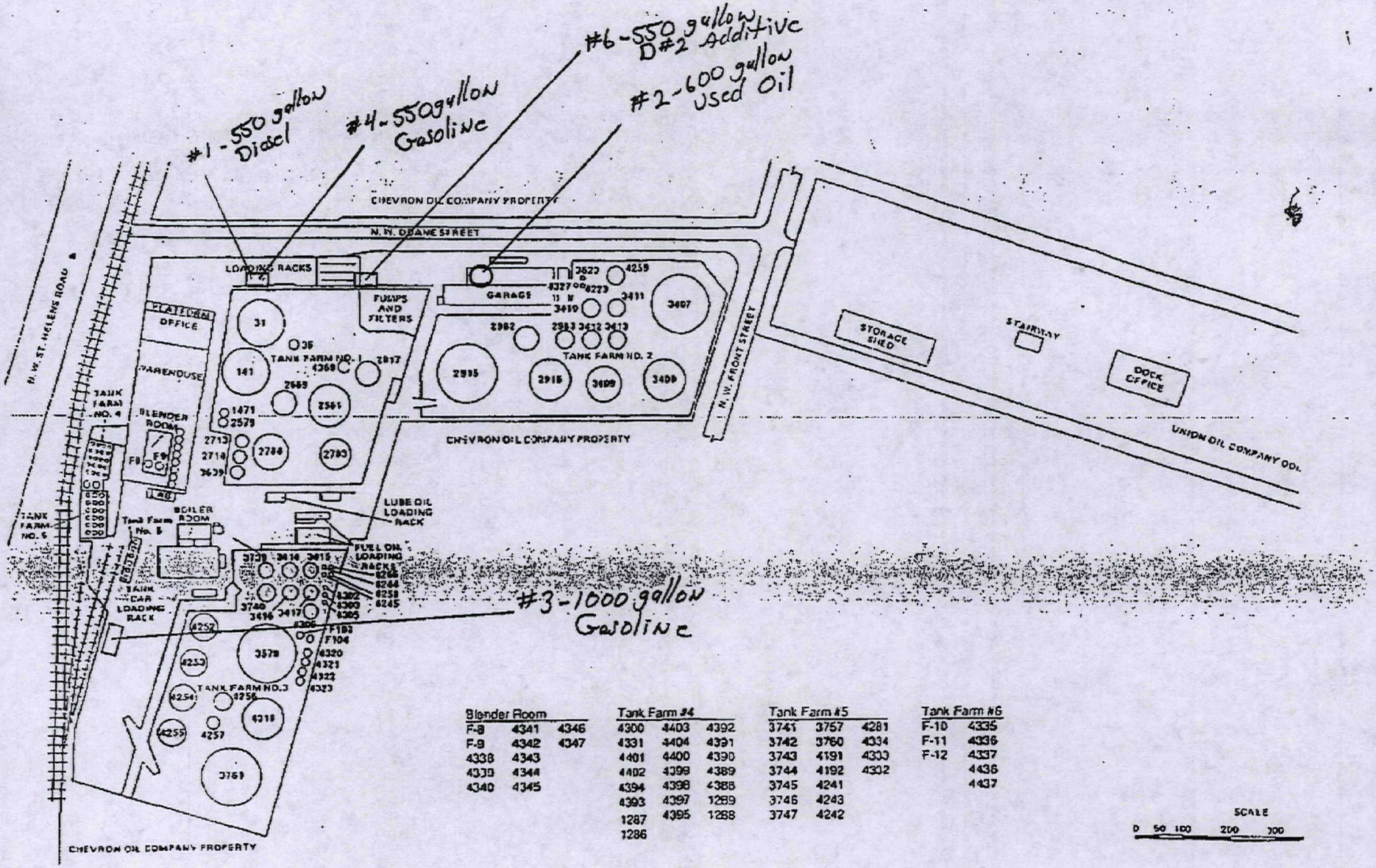
Tank #	Ground* water in pit?	Product odor in soil?	Product stains in soil?	Number of Samples	Laboratory (Name, City, State, Phone)
* #1	NO	YES	YES	1.5 *	AM TEST, Inc. Beaverton, OR. 626-7424
#2	NO	NO	NO	2	AM TEST, Inc. Beaverton, OR. 626-7424
#3	NO	NO	NO	2	AM TEST, Inc. Beaverton, OR. 626-7424
* #4	NO	YES	YES	1.5 *	AM TEST, Inc. Beaverton, OR 626-7424
#6	NO	NO	NO	2	AM TEST, Inc. Beaverton, OR 626-7424

* #1 & #4 were in one excavation.

* Note: Sampling is required if groundwater is encountered. See cleanup rules.

F. SITE SKETCH: (Show location of adjacent roads, property lines, structures, dispenser, & all USTs) (Show North, general direction of ground slope and soil sample locations. Sketch does not need to be drawn to scale. You may attach a separate drawing.)

See Attached Site Maps



Blender Room		
F-8	4341	4346
F-9	4342	4347
4338	4343	
4339	4344	
4340	4345	

Tank Farm #4		
4330	4403	4392
4331	4404	4391
4401	4400	4390
4402	4399	4389
4394	4398	4388
4393	4397	1289
1287	4395	1288
1286		

Tank Farm #5		
3741	3757	4281
3742	3760	4334
3743	4191	4333
3744	4192	4332
3745	4241	
3746	4243	
3747	4242	

Tank Farm #6	
F-10	4335
F-11	4336
F-12	4337
	4436
	4437

Tosco Facility
5528 NW Doane Ave
Portland, OR. 97210

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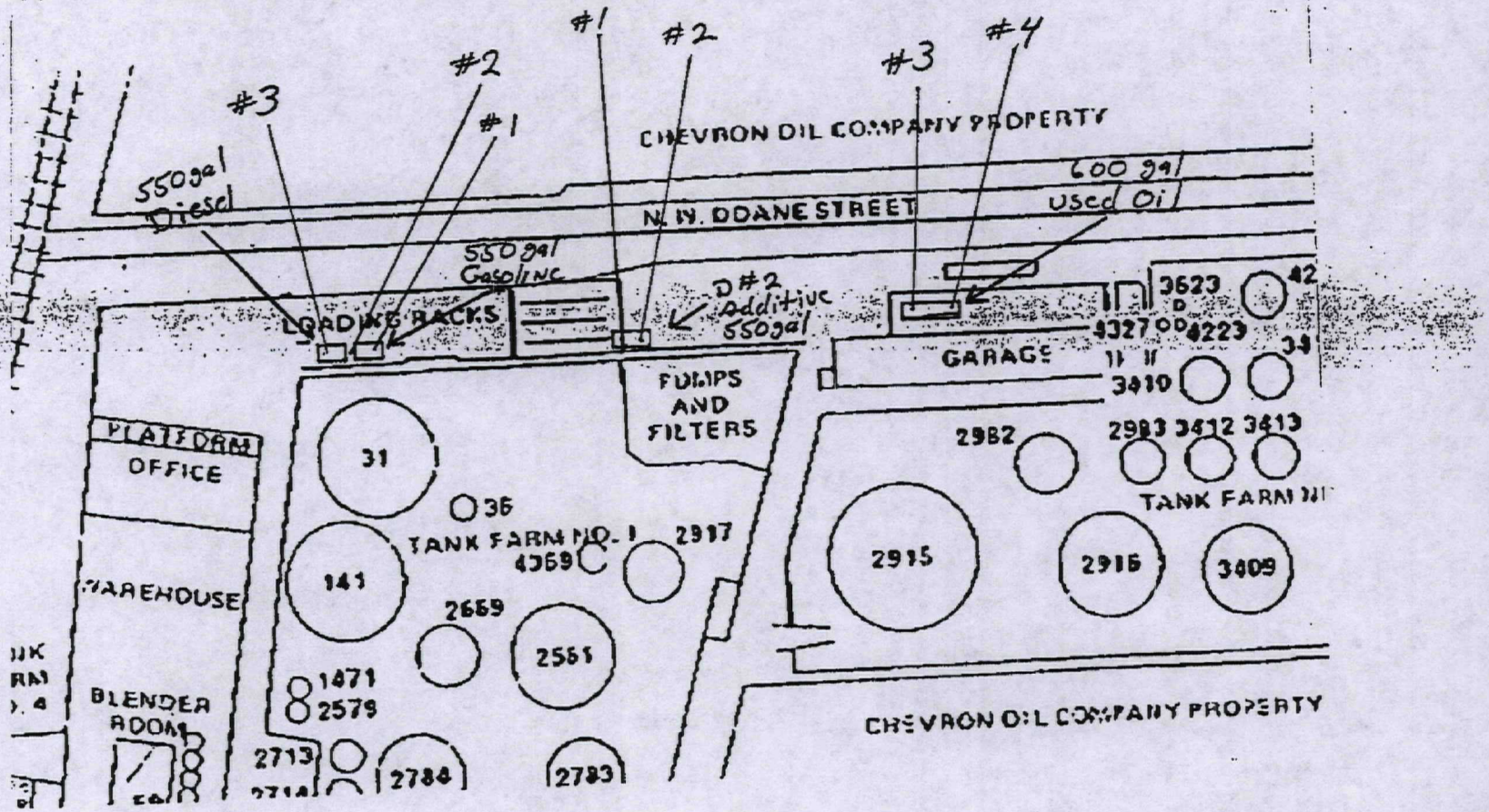
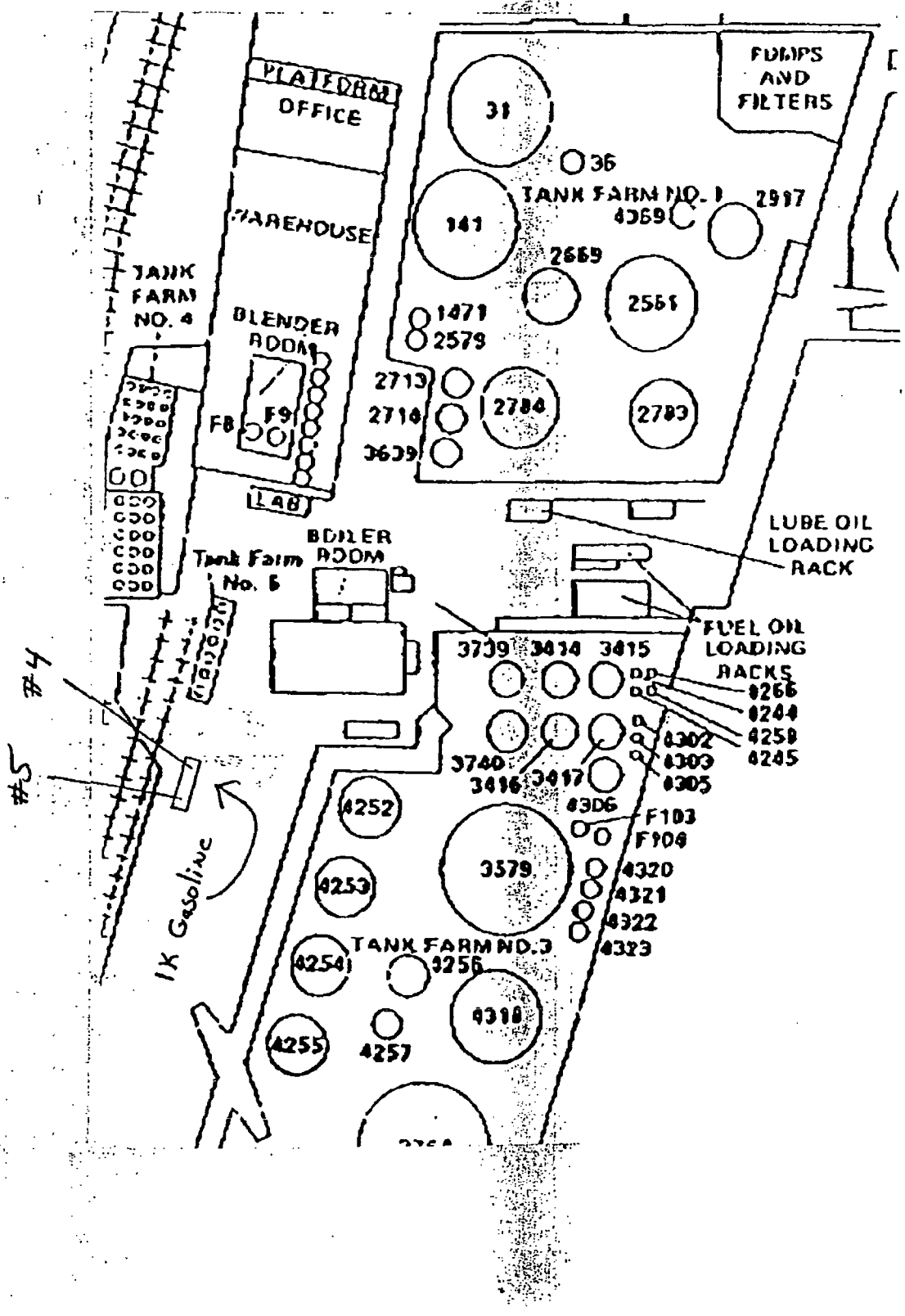
Tosco Facility
UST Decommission
Sample Location



Tosco Facility
UST Decommission
Sample Locations



G. WORK PERFORMED BY:

DEQ Service Provider's License #: 11633 Construction Contractors License #: 0069328

Name: Olympus Environmental

Telephone: 503/254-7400

DEQ Decommissioning Supervisor's License #: 12997

Name: Bob Janak

Telephone: 503/ 254-7400

DEQ Soil Matrix Service Provider's License #: 11995 (If applicable)

Name: Olympus Environmental

Telephone: 503/254-7400

DEQ Soil Matrix Supervisor's License #: 12998 (If applicable)

Name: Bob Janak

Telephone: 503/254-7400

H. ATTACHMENTS TO THIS REPORT:

1. Attach a copy of the laboratory report showing the results of all tests on all soil and water samples. The laboratory report must identify sample collection methods, sample location, sample depth, sample type (soil or water), type of sample container, sample temperature during transportation, types of tests, and copies of analytical laboratory reports, including QA/QL information. Include laboratory name, address and copies of chain-of-custody forms.

2. If contamination is detected and a Level 2 or Level 3 soil matrix cleanup standard is selected attach a copy of the soil matrix analysis for the site including methods of determining soil type, depth to groundwater, and sensitivity of uppermost aquifer.

I. REPORT FILING:

This report, signed by the tank owner or operator, complete with all applicable attachments must be filed with DEQ headquarters within 30 days after the excavation is backfilled or change-in-service is complete. Contact the DEQ regional office prior to filing this report where special circumstances exist at the site (such as water in pit, remaining pockets or contamination, etc.).

NOTE: If contamination was found during site assessment at decommissioning or change-in-service and reported to DEQ regional office, this report may be submitted with either the first interim cleanup report or the final cleanup report, whichever is first.

Return Completed Form to:

Department of Environmental Quality
UST Program - Decommissioning Report
811 S.W. Sixth Ave.
Portlane, Oregon 97204

I have personally reviewed this report and the attachments and find them to be true and complete.

Signature: _____ Date: _____
(Owner or Operator)

For information: (503) 229-5733 or Toll Free in Oregon 1-800-452-4011

Oregon Department of Environmental Quality

UNDERGROUND STORAGE TANK DECOMMISSIONING CHECKLIST

DEQ FACILITY NUMBER: 1203 DATE: 8-4-97

FACILITY NAME: Tosco Corp. (Unocal)

FACILITY ADDRESS: 5528 N.W. Doane Avenue
Portland, Or. 97210

PHONE: 503/248-1558

A. SAFETY EQUIPMENT ON JOB SITE:

Fire Extinguisher: Type/Size: CO_2 - 15 lbs Recharge Date: 8/1/97

Combustible Gas Detector: Model: Dynatron #3173 Calibration Date: 7/97

Oxygen Analyzer: Model: Dynatron #3173 Calibration Date: 7/97

B. DECOMMISSIONING: All Tanks: (Unk. = Unknown, N/A = Not Applicable) (Check Appropriate Box)

	Yes	No	Unk	N/A
1. All electrical equipment grounded and explosion proof?	X			
2. Safety equipment on job site?	X			
3. Overhead electrical lines located?	X			
4. Subsurface electrical lines off or disconnected?	X			
5. Natural gas lines off or disconnected?				X
6. No open fires or smoking material in area?	X			
7. Vehicle and pedestrian traffic controlled?	X			
8. Excavation material area cleared?	X			
9. Rainwater runoff directed to treatment area?				X
10. Drained and collected product from lines?	X			
11. Removed product and residual from tank?	X			
12. Cleaned tank?	X			
13. Excavated to top of tank?	X			
14. Removed tank fixtures? (pumps, leak detection equip.	X			
15. Removed product, fill and vent lines?	X			

C. TANK ABANDONMENT IN-PLACE:

	Yes	No	Unk	N/A
16. Sampling plan approved by DEQ? Date: 7/7/97 DEQ Staff: Richard Rose	X			

B. DECOMMISSIONING: All Tanks: (Unk. = Unknown, N/A = Not Applicable)
(Check Appropriate Box)

Yes	No	Unk	N/A
	X		
X			

17. Contamination concerns fully resolved?

18. Fill Material? Type: 3/4" minus Rock

D. TANK REMOVAL:

X			
X			
X			
X			
X			
X			

19. Tank placement area cleared, chocks placed?

20. Purged or ventilated tank to prevent explosion?
Method used: CO_2 Meter reading: 70%

21. No chains or steel cables wrapped around tank for removal?

22. Tank removed, set on ground, blocked to prevent movement?

23. Tank set on truck and secured with strap(s)?

24. Tank labeled before leaving site?

E. SITE ASSESSMENT:

X			
X			
X			
X			
X			
			X

25. Site assessed for contamination? See OAR 340-122-340

26. Soil samples taken and analyzed?

27. Decommissioning/Change-in-Service report sent to DEQ?

28. Was contamination found? Date/Time: 8-4-97 @ 1330hrs

29. Was contamination reported to DEQ? By: Bob Jawak
Date/Time: 8-4-97 @ 1420hrs DEQ Staff: Mitch Scheel

30. Was hazardous waste determination made for tank contents (Liquids/sludges)?

31. Disposal location of tank(s) contents.

Name: Tosco Corp Date: 8-4-97

Address: 5528 NW Doane Ave
Portland, OR. 97210 Attach disposal receipt. - on site - No Receipt

32. Disposal or recycling location of removed tank(s) and associated piping.

Name: Oregon Pacific Steel / USA waste Date: 8-5-97 / 8-12-97

Address: 12299 N. Burgard Rd / 3205 SE Minter Bridge Rd.
Portland, OR. 97203 / Hillsboro, OR Attach disposal receipt. YES

33. If tank(s) are intended to be reused, identify new tank site.

Name: NA Date: NA

Address: NA

Purpose of Reuse: NA

F. WORK PERFORMED BY:

DEQ Service Provider's License #: 11633

Name: Olympus Environmental

Telephone: 503/254-1400

DEQ Decommissioning Supervisor's License #: 12997

Name: Bob Janak

Telephone: 503/254-1400

E. CHECKLIST FILING:

1. Provide copy of checklist to the UST owner and operator.

2. Send completed checklist to the DEQ headquarters within 30 days after the excavation is backfilled.

NOTE: If contamination was found during decommissioning and reported to DEQ regional office, this report may be submitted with either the first interim cleanup report or the final cleanup report, whichever is first.

Send Completed Form to:

Department of Environmental Quality
UST Program - Decommissioning Checklist
811 S.W. Sixth Ave.
Portland, Oregon 97204

I have personally reviewed this decommissioning checklist and find it to be true and complete.

Signature: Bob Janak (Licensed Supervisor) Date: 8-8-97

Signature: _____ (Owner or Operator) Date: _____

For information: (503) 229-5559 or Toll Free in Oregon 1-800-452-4011

Tosco Corp.
5528 NW Doane Ave
Portland, OR 97210
DEQ Facility # 1203

Matrix Checklist

YES 1. The release of petroleum has been reported to the Department of Environmental Quality (220).

YES 2. The Matrix score sheet attached to this checklist has been completed for this site, unless the site is being cleaned up to the most stringent cleanup level (320).

YES 3. If the cleanup level used for this site is one of the three diesel cleanup levels, a hydrocarbon identification (HCID) test has been performed which proves that the soil contamination is not from gasoline (335(3)).

YES 4. A sketch has been made of this site (345(1)). This sketch clearly shows:

✓ a. The location of all buildings and other key features, both man-made and natural;

✓ b. The names of adjacent streets and properties;

✓ c. The location of all excavations including those that were for the removal of tanks and associated piping as well as those that were strictly for the removal of contaminated soils;

✓ d. The location of all product storage tanks, lines and dispensers, including those that were decommissioned as well as those that remain on the site; and

✓ e. The locations from which all soil and water samples were collected .

YES 5. If any contaminated soil in excess of matrix limits has been left on site, the reason for leaving this soil has been explained and the requirements of 355(4) have been met.

NA 6. If water was present in the tank pit, the Department was notified, the water was pumped from the pit, and the requirements of 340(4) have been met.

YES 7. All soil and/or water samples have been collected, coded, stored and shipped as specified in the rules, and proper chain-of-custody forms have been filled out (345).

YES 8. All final confirmatory soil samples have been analyzed using the methods required by the Department (350).

YES 9. If a tank was decommissioned in place, the Department gave prior approval for a site-specific sampling plan (340(5)).

YES 10. A report has been prepared which contains all of the information required by the rules (360).

Tasco Corp
5528 NW Doane Ave
Portland, Or. 97210
DEQ Facility # 1203

MATRIX SCORE SHEET

1. Depth to Groundwater		10
< 25 feet	(10)	
25 - 50 feet	(7)	
51 - 100 feet	(4)	
> 100 feet	(1)	
2. Mean Annual Precipitation		10
>40 inches	(10)	
20 - 40 inches	(5)	
<20 inches	(1)	
3. Native Soil Type		5
Coarse sands, gravels	(10)	
Silts, fine sands	(5)	
Clays	(1)	
4. Sensitivity of Uppermost Aquifer		4
Sole Source	(10)	
Current Potable	(7)	
Future Potable	(4)	
Non-potable	(1)	
5. Potential Receptors		5
Many, near	(10)	
Medium	(5)	
Few, far	(1)	
TOTAL SCORE	=	34

Matrix Score	Cleanup Level in ppm TPH	
	Gasoline	Diesel
Level 1: > 40 pts.	40	100
→ Level 2: 25 - 40 pts.	80	500 ←
Level 3: < 25 pts.	130	1000

STATE OF OREGON CONSTRUCTION CONTRACTORS BOARD

REGISTRATION CERTIFICATE

This certifies that the person named hereon
is registered as provided by law as a

[Gen Contr/All Structures
[NON EXEMPT
[Corporation

Registration
Number 0069378

Expires 09/24/97

OLYMPUS ENVIRONMENTAL INC
12695 NE MARX ST
PORTLAND OR 97230 0000

SIGNATURE OF REGISTRANT

Oregon

DEPARTMENT OF ENVIRONMENTAL QUALITY

February 07, 1997

Bob Janak
Olympus Environmental
77 SW Riverview Pl.
Gresham, OR 97080

RE: 3585
AD: 110300

RE: UST Supervisor License

You are licensed in the State of Oregon to supervise the conduct of services for regulated underground storage tanks with valid permits while employed by a licensed UST Service Provider. Your licenses to supervise specific regulated activities are valid until the dates shown below and on your license card.

Licensed Services	License Number	Expiration Date
Soil Matrix Cleanup	12998	02/01/99
Decommission	12997	02/01/99

Your licenses are issued under the provisions of OAR 340-160-005 through 340-160-150 and OAR 340-162-005 through 340-162-150 and OAR 340-163-005 through 340-163-150. It does not license you to act as an UST Service Provider in Oregon.

Your license card (below) must be available on demand for inspection whenever you are working as an UST Supervisor.

Sincerely,

Michael H. Kortenhof
UST Compliance Manager
UST Compliance Section

Bob Janak
77 SW Riverview Pl
Gresham, OR 97080

LICENSED SERVICES	LIC#	EXPIRES
Soil Matrix Cleanup	12998	02/01/99
Decommission	12997	02/01/99

Bob Janak
Supervisor Signature

811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696
DEQ-1

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Oregon

DEPARTMENT OF ENVIRONMENTAL QUALITY

JUL 24 1997

July 23, 1997

Bob Janak
Olympus Environmental, Inc.
12755 NE Marx Street
Portland, OR 97230

RE: 4470
AD: 111756

RE: UST Service Provider License

Your firm is licensed in the State of Oregon to offer services for regulated underground storage tanks with valid permits. You must have a licensed UST supervisor on site to perform regulated services. Your license(s) to offer specific regulated services are valid until the dates shown below and on your license certificate. It does not license you to act as an UST Supervisor in Oregon.

Licensed Services	License Number	Expiration Date
Soil Matrix Cleanup Prov.	11995	25-JUL-98
Service Provider	11633	08-JUL-99

Your license is issued under the provisions of OAR 340-160-005 through 340-160-150 and OAR 340-162-005 through 340-162-150 and OAR 340-163-005 through 340-163-150.

A copy of your license certificate (attached) must be available on demand for inspection whenever you are working on a site as an UST Service Provider.

Sincerely,

Stephanie A. Holmes for

Michael H. Kortenhof
UST Compliance Manager

811 SW Sixth Avenue
Portland, OR 97204-1390
(503) 229-5696
TDD (503) 229-6993
DEQ-1

UST SERVICE PROVIDER LICENSE

This License is Issued by The Oregon Department of Environmental Quality to:

Olympus Environmental, Inc.
12755 NE Marx Street
Portland, OR 97230

You are Licensed to Offer the Following Underground Storage Tank Services:

License Type	License Number	Issued	Expires
Soil Matrix Cleanup Prov.	11995	July 25, 1996	July 25, 1998
Service Provider	11633	July 08, 1997	July 08, 1999

A Licensed Underground Storage Tank Supervisor Must be Present at a Site to Perform These Services

Issued: xx RE ID: 4470

Expires: xxxxxxxx ADDR ID: 111756

Authorized: Stephanie A. Holmes for
Michael H. Kortenhof
UST Compliance Manager

A Copy of This License Shall Be Available for Inspection At All Sites Involving UST Work

COPPOR0002480

TOSCO

Tosco Distribution Company
A Division of Tosco Corporation
Portland Terminal
5528 Northwest Doane Avenue
Portland, Oregon 97210
P.O. Box 76
Portland, Oregon 97207
Telephone: 503-248-1529
Facsimile: 503-248-1597

Via Facsimile: (503)229-6954

15 December 1998

State of Oregon
Department of Environmental Quality
UST Program
811 SW 6th Ave.
Portland, OR 97204

Re: **Decommissioning Tank Status**
Tosco Portland Terminal
5528 NW Doane
Portland, OR 97210

Dear Sir or Madam:

Attached is a copy of the completed general permit registration form to operate for facility ID #1203, located at the above referenced address. All required analytical reports for this decommissioned tank will be forwarded to your office upon completion.

Thank you for your assistance in this matter. Should you have any questions, please call me at (503)248-1552.

Sincerely,

Sandra A. Matthews
NW Environmental Compliance Specialist

/sam
Enclosures
cc: S. Gloeckner
R. McGowen
A. Rogers
Correspondence File
Terminal Files

UNDERGROUND STORAGE TANK PROGRAM

DECOMMISSIONING TANK STATUS

FOR HOLDERS OF TEMPORARY UST PERMITS

TO PERMITTEE:

Rodger McGowne
UNOCAL
PO Box 76
Portland, OR 97207

FOR EXISTING FACILITY:

Facility ID Number: 1203
TOSCO - PORTLAND TERMINAL
5528 NW DOANE AVE
PORTLAND, OR 97210

DEQ records indicate the following tanks have not been upgraded to meet one or more of the 1998 technical standards for corrosion control, spill and overfill prevention and leak detection and must be decommissioned in accordance with OAR 340-150-0166 prior to December 22, 1998. Tanks that do not meet the 1998 technical standards by December 22, 1998 must permanently close as of that date or, at a minimum, elect the temporary closure option which requires permanent decommissioning no later than December 22, 1999. Instructions on how to comply with the general permit to decommission conditions and requirements, including temporary and permanent closure or change-in-service, will be mailed to you in late December 1998.

IF INFORMATION ON YOUR TANK STATUS IS CORRECT (i.e. the following tanks do not, or will not meet the 1998 technical standards for corrosion control, spill and overfill prevention and leak detection by December 22, 1998) **DO NOT RETURN THIS FORM.** You will be receiving further instructions about decommissioning these tanks in late December 1998.

IF OUR INFORMATION IS INCORRECT AND YOU DO INTEND TO OPERATE ONE OR MORE OF THE FOLLOWING TANKS on or after December 23, 1998, **PLEASE COMPLETE PAGE 2, THE *GENERAL PERMIT REGISTRATION FORM TO OPERATE.*** For any tanks listed below, just transfer the Tank ID Number and Tank Permit Number to page 2 and describe the facts pertaining to the installation, upgrading or retrofitting of the subject tanks. If necessary, please make extra copies of page 2 to register more tanks. Both the permittee and tank owner must sign the operating registration form and return it to the Department of Environmental Quality, UST Program, 811 SW 6th Avenue, Portland, OR 97204.

TANKS TO BE DECOMMISSIONED

Tank ID Number	Tank Permit Number	Tank ID Number	Tank Permit Number	Tank ID Number	Tank Permit Number
0608-0200-3	ADFHE	0608-0200-8	ADFJB	0608-0200-8-2	ADFJC

UNDERGROUND STORAGE TANK PROGRAM

GENERAL PERMIT REGISTRATION FORM TO OPERATE

FACILITY ID NUMBER: 8203

Complete this form **ONLY** if you intend to operate any of the tanks listed as **TANKS TO BE DECOMMISSIONED** on the reverse side of this page. Also include any new tanks which you have installed, **only** if you have not already received a general permit to operate registration form for these tanks in the mail. Please print your facility number in the space above.

This form must be mailed to the address on the instruction page. Both the permittee and tank owner must sign. Make a copy of this form for your records. Lastly, please call your DEQ regional office listed on page 4 of the instructions and discuss these changes you are making. It will help to speed up the processing of this registration form.

Tank ID Number	Tank Permit Number
008-0003	ADFHE

THIS TANK WAS DECOMMISSIONED IN PLACE BY CET ENVIRONMENTAL ON 12-2-98 ALL OF THE NECESSARY DATA GATHERED WILL BE SENT TO THE DEQ FROM CET

Tank ID Number	Tank Permit Number

Tank ID Number	Tank Permit Number

Note: Failure to register and receive a general permit registration certificate to operate under the recently adopted rules means that after December 22, 1998 regulated substance cannot be deposited into the tanks.

Tosco Corporation	Tosco Corporation
Legal Name* of **Tank Owner** as registered with the Secretary of State, Corporations Division	Legal Name* of **Permittee** as registered with the Secretary of State, Corporations Division
Anita Rogers	Anita Rogers
Name of Official (Please Print)	Name of Official (Please Print)
Anita L Rogers 12/15/98	Anita L Rogers 12/15/98
Signature of Official / Date	Signature of Official / Date

I hereby register to operate the USTs described above in accordance with the conditions and requirements of the general permit pursuant to OAR 340-150-0163. I also certify that these tanks meet the 1998 technical standards for corrosion control, spill and overfill prevention and leak detection and I have arranged financial responsibility.

* If you are not registered with the Secretary of State, Corporations Division, provide the name that you currently use to identify your business to customers.

Tank ID	Permit #	Gallons	Contents	Tank System Upgraded? YES	NO
0608-0200-3	ADFHE	6000	Diesel	___	✓
0608-0200-8	ADFJB	5000		___	✓
0608-0200-8-2	ADFJC	5000		___	✓

PLEASE SIGN THE FOLLOWING UPGRADE CERTIFICATION STATEMENT AND RETURN IT TO THE DEPARTMENT OF ENVIRONMENTAL QUALITY, UST PROGRAM, 811 SW SIXTH AVENUE, PORTLAND, OR 97204. Permittees who do not return this upgrade certification form or fail to sign it will automatically be invoiced the non-refundable $60.00 per tank fee.

Please note in accordance with ORS 466.765 and 40 CFR 280.34 as adopted or as amended by OAR 340-150-003, you are required to cooperate fully with inspections, monitoring and testing conducted by the Department, as well as requests for document submission, testing and monitoring pursuant to section 9005 of Subtitle I of the Resource Conservation and Recovery Act, as amended. The information you have submitted is subject to audit and verification by the Department's Underground Storage Tank Compliance Inspectors. A false certification may result in enforcement action being taken by the Department.

I hereby certify that the information provided on this form concerning the upgrade status of my underground storage tank system(s) is accurate.

Signature (required): Roger McGuire Date: 10-8-97

The Department appreciates your cooperation in completing and returning this form to us.

For information or assistance with this form call your regional DEQ office or the UST HELPLINE: 1-800-742-7878(Toll Free in Oregon). Regional office phone numbers are listed on the reverse side of the enclosed "Quick Early Compliance Checklist."

FOR DEQ USE ONLY

INSPECTOR'S VERIFICATION SIGNATURE _____

DATE _____

Oregon
John A. Kitzhaber, M.D., Governor

Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

November 30, 1998

ROGER MCGOWN
TOSCO DISTRIBUTION COMPANY
5528 NW DOANE STREET
PORTLAND OREGON 97210

Re: UST Facility #1203
Tosco Distribution Co.

Dear Mr. McGown:

The Department of Environmental Quality (ODEQ) has received information that you intend to decommission an underground storage tank (UST) in-place. Title 40 CFR 280.72 as amended by Oregon Administrative Rule 340-150-003 required the submittal of this sampling plan prior to decommissioning in-place.

You have approval to proceed with decommissioning as long as you follow the protocol outlined below:

1. Confirm the ODEQ UST Decommissioning/Change-In-Service 30-Day Notice is submitted prior to project commencement. This condition has been met.

2. Determine who will provide ODEQ with the 3-day verbal notice and receive the notice log-number. Know in advance who will complete and submit the UST decommissioning forms.

3. The UST decommissioning must mention your intentions regarding the fate of product lines. If product lines are to remain in-place, samples should be collected from the native soils directly beneath the areas where contamination is or collected at 20 lineal foot intervals.

4. The sampling plan must address the possibility of encountering groundwater. ODEQ suggests you verify the depth to groundwater, and be prepared with contingency sampling should groundwater be encountered.

5. As required, two (2) proposed soil probe points or trenches shall be located on the ends of each UST or through a hole cut in the tank. DEQ requires that retrieved samples from beneath the tanks and piping be continuously monitored for the presence of a release. Sampling the most heavily impacted samples shall be collected for laboratory analysis or in the absence of obvious contamination, the proposed sampling interval. Samples must be collected no further than 2 feet below the bottom of the tank in native soil, within a foot of the end of the tank.

6. Please protect the surface waters from petroleum spills during this project. Any release, which results in sheen to surface waters, must be reported immediately.

7. If contamination is discovered, you and/or the licensed service provider must provide the required notice to ODEQ.

Roger McGown
11/30/98

8. If contamination is inaccessible because of structural limitations, the Department requires that the full lateral and vertical extent of the pocket be characterized. Have a contingency plan to define the pocket if contamination is inaccessible.

9. In addition, please be advised that if groundwater is encountered in the borings, DEQ should be notified. Assessment needs may change if groundwater is encountered during the decommissioning.

10. Upon completion of the decommissioning, the closure document shall be submitted, including:

- 30-Day UST Decommissioning/Change-in-Service Report
- 30-Day UST Decommissioning Checklist
- Laboratory analytical test results
- Receipt of disposal on product, sludge & residues removed from the UST.
- Detailed site plan including; Property boundaries, buildings/other man-made features, such as wells and buried utilities, drainage ditches, surface waters. groundwater monitoring wells, etc.
- Depth below ground surface groundwater is estimated or confirmed to be.
- How the samples were collected, preserved and stored.
- Information of samples collected on the site, previous investigations.
- What quality assurance and control measures were taken.
- Details on the inert fill material used to fill the UST, include compressive strength.

11. In addition, please be advised that ODEQ requires UST decommissioning project follow American Petroleum Institute recommended practice 1604 & 2015, the National Institute for Occupational Safety and Health "Criteria for a Recommended Standard..Working in Confined Space and OAR 437, Division 2, General Occupational Safety and Health Rules (29 CFR 1910).

If you have any questions regarding this matter, please call me at 503-229-5472.

Sincerely,

Richard Rose
UST Compliance/Cleanup Specialist
Northwest Region

Cc: CET Environmental Services
5315 NW St. Helens Rd.
Portland, Oregon 97210-1145
UST-Duty Officer

TescoDist.rtr

Oregon
John A. Kitzhaber, M.D., Governor

Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

November 3, 1998

Facility ID No.:1203

Dear Tank Owner/Permittee:

We received a decommissioning notice on October 21, 1998 for 1 underground storage tank(s) located at:

TOSCO Distribution Co
5528 NW Doane Street
Portland OR 97210

Checking our records, it appears the tanks are registered, permit fees are current, and the contractor is licensed. You are required to confirm the date of removal with the appropriate regional office (see below) at least 72 hours prior to tank removal. If you have any further questions about your permit fees, facility information or DEQ Licensed Contractors please call Debi Smith at (503) 229-5441.

An assessment must be conducted at all tank sites and contamination must be reported within 24 hours of discovery. OAR 340-122-301 through 340-122-360 contains the sampling requirements necessary when decommissioning underground storage tanks. As soon as contamination is identified in any manner, including observations of visible staining or odors, it must be reported. If obvious signs of contamination are present in the excavation, **DO NOT** wait until you receive the sample results to report the contamination.

If you need to report contamination or have any general questions regarding site cleanup or UST compliance issues, please contact the regional office at the number listed below.

*** **REMINDER:** The UST Decommissioning/Change-In-Service Report form and the UST Decommissioning Checklist form must be submitted within 30 days after completion of work.

Sincerely,

Debi Smith

Debi Smith
UST Compliance Section
Northwest Region

cc: Stephanie Holmes WMC

DEQ-1

State of Oregon
Department of Environmental Quality
Underground Storage Tank Program

Upgrade Certification Form

To: Rodger McGowne
UNOCAL
Portland, OR 97207

For: Facility Number 1203
UNOCAL - PORTLAND TERMINAL
5528 NW DOANE AVE
PORTLAND, OR 97210

Recognizing that preventing leaks from underground storage tanks is key to protecting groundwater quality, the United States and the State of Oregon adopted the underground storage tank regulations. In 1988 a ten year clock began to tick for upgrading underground storage tank systems (USTs). On December 22, 1998 all USTs must have spill protection, overfill protection and corrosion protection for the tanks and piping. Leak detection and financial responsibility (insurance) are required now.

The State of Oregon recently changed the annual permit compliance fee for some tanks so that the Department can continue to provide technical assistance to those upgrading their tanks. Beginning January 1, 1998, the annual UST per tank compliance fee will rise to $60.00 for tank systems which have not been upgraded. The annual fee for permittees who meet all state or federal upgrade requirements will remain unchanged at $35.00 per tank per year. TO IMPLEMENT THE REVISED LAW, THE DEPARTMENT MUST ASK ALL PERMITTEES TO COMPLETE THIS UPGRADE CERTIFICATION FORM CONCERNING THE UPGRADE STATUS OF THEIR TANK SYSTEMS(S) AND RETURN IT TO THE DEPARTMENT NO LATER THAN OCTOBER 31,1997.

Enclosed is a "Quick Early Compliance Checklist" designed to help you determine whether your tank systems meet the upgrade requirements. If you need further assistance, the Department recommends that you contact your DEQ licensed installation/retrofit service provider. IN ORDER TO MEET THE STATE OR FEDERAL UPGRADE REQUIREMENTS, AND TO QUALIFY FOR THE LOWER FEE, YOUR TANK SYSTEM(S) MUST HAVE SPILL AND OVERFILL PROTECTION, AND CORROSION PROTECTION FOR THE TANK(S) AND CORROSION PROTECTION FOR THE PIPING IN ACCORDANCE WITH 40 CFR 280.21 AS ADOPTED OR AS AMENDED BY OAR 340-150-003.

According to our records you are currently the holder of temporary permits for the tank system(s) listed below. Please place a check mark in the YES column after those tank systems which currently meet all the upgrade requirements. For tank systems which do not meet one or more of the upgrade requirements on the day you complete this certification, place a check mark in the NO column. (Note: Tank systems which are upgraded in the interim period between submittal of this certification and December 22, 1998, will be invoiced at the lower fee in 1998 and/or 1999, as applicable, by completing a revised certification form as part of the required installation checklist or upgrade/retrofit checklist.)

UNDERGROUND STORAGE TANK PROGRAM

DECOMMISSIONING TANK STATUS

FOR HOLDERS OF TEMPORARY UST PERMITS

TO PERMITTEE:

Rodger McGowne
UNOCAL
PO Box 76
Portland, OR 97207

FOR EXISTING FACILITY:

Facility ID Number: 1203
TOSCO - PORTLAND TERMINAL
5528 NW DOANE AVE
PORTLAND, OR 97210

DEQ records indicate the following tanks have not been upgraded to meet one or more of the 1998 technical standards for corrosion control, spill and overfill prevention and leak detection and must be decommissioned in accordance with OAR 340-150-0166 prior to December 22, 1998. Tanks that do not meet the 1998 technical standards by December 22, 1998 must permanently close as of that date or, at a minimum, elect the temporary closure option which requires permanent decommissioning no later than December 22, 1999. Instructions on how to comply with the general permit to decommission conditions and requirements, including temporary and permanent closure or change-in-service, will be mailed to you in late December 1998.

IF INFORMATION ON YOUR TANK STATUS IS CORRECT (i.e. the following tanks do not, or will not meet the 1998 technical standards for corrosion control, spill and overfill prevention and leak detection by December 22, 1998) **DO NOT RETURN THIS FORM.** You will be receiving further instructions about decommissioning these tanks in late December 1998.

IF OUR INFORMATION IS INCORRECT AND YOU DO INTEND TO OPERATE ONE OR MORE OF THE FOLLOWING TANKS on or after December 23, 1998, **PLEASE COMPLETE PAGE 2, THE *GENERAL PERMIT REGISTRATION FORM TO OPERATE.*** For any tanks listed below, just transfer the Tank ID Number and Tank Permit Number to page 2 and describe the facts pertaining to the installation, upgrading or retrofitting of the subject tanks. If necessary, please make extra copies of page 2 to register more tanks. Both the permittee and tank owner must sign the operating registration form and return it to the Department of Environmental Quality, UST Program, 811 SW 6th Avenue, Portland, OR 97204.

TANKS TO BE DECOMMISSIONED

Tank ID Number	Tank Permit Number	Tank ID Number	Tank Permit Number	Tank ID Number	Tank Permit Number
0608-0200-3	ADFHE	0608-0200-8	ADFJB	0608-0200-8-2	ADFJC

UNDERGROUND STORAGE TANK PROGRAM

GENERAL PERMIT REGISTRATION FORM TO OPERATE

FACILITY ID NUMBER: 1203

Complete this form **ONLY** if you intend to operate any of the tanks listed as **TANKS TO BE DECOMMISSIONED** on the reverse side of this page. Also include any new tanks which you have installed, **only** if you have not already received a general permit to operate registration form for these tanks in the mail. Please print your facility number in the space above.

This form must be mailed to the address on the instruction page. Both the permittee and tank owner must sign. Make a copy of this form for your records. Lastly, please call your DEQ regional office listed on page 4 of the instructions and discuss these changes you are making. It will help to speed up the processing of this registration form.

Tank ID Number	Tank Permit Number

Tank ID Number	Tank Permit Number

Tank ID Number	Tank Permit Number

Note: Failure to register and receive a general permit registration certificate to operate under the recently adopted rules means that after December 22, 1998 regulated substance cannot be deposited into the tanks.

TOSCO DISTRIBUTION CO.	TOSCO DISTRIBUTION CO
Legal Name* of **Tank Owner** as registered with the Secretary of State, Corporations Division	Legal Name* of **Permittee** as registered with the Secretary of State, Corporations Division
Name of Official (Please Print)	Name of Official (Please Print)
Signature of Official Date	Signature of Official Date

I hereby register to operate the USTs described above in accordance with the conditions and requirements of the general permit pursuant to OAR 340-150-0163. I also certify that these tanks meet the 1998 technical standards for corrosion control, spill and overfill prevention and leak detection and I have arranged financial responsibility.

* If you are not registered with the Secretary of State, Corporations Division, provide the name that you currently use to identify your business to customers.

NEW GENERAL PERMIT TO DECOMMISSION USTS

UNDERGROUND STORAGE TANK PROGRAM

DESCRIPTION:

On December 22, 1998 all the outstanding UST temporary permits for underground storage tanks will be terminated pursuant to Oregon Administrative Rule 340-150-0021 (1) recently adopted by the Environmental Quality Commission (EQC) on October 30, 1998. In lieu of issuing individual permits to facilities, the EQC adopted two general permits by rule, one to cover the conditions and requirements to operate USTs holding regulated substances and one to cover the conditions and requirements to decommission USTs by closure or change-in-service. Copies of the draft general permits to operate and decommission were mailed to all permittees and tank owners in August 1998.

Tanks that our records indicate meet the 1998 technical standards for corrosion control, spill and overfill prevention and leak detection have been mailed a *General Permit Registration Form to Operate*. You have received this ***Decommissioning Tank Status Form*** as our records indicate the tanks listed on page 1 do not meet the 1998 technical standards. Tanks that do not meet the 1998 technical standards are not eligible to receive a *General Permit to Operate* and will not be authorized to receive regulated substances such as motor fuel on or after December 23, 1998.

INSTRUCTIONS:

1. According to our records; based on self-certification survey forms, non-response to self-certification survey forms or regional inspections, it is our understanding that the **tanks listed on page 1 do not meet the 1998 technical standards** for corrosion control, spill and overfill prevention and leak detection. As such, it will be necessary to manage these tanks in accordance with the conditions and requirements of the *General Permit to Decommission USTs* by temporary or permanent closure or change-in-service pursuant to OAR 340-150-0166.

2. **If our determination in Instruction #1 is correct, no action is required at this time.** Please keep these forms for your records. In late December 1998 we will mail you a decommissioning package with instructions on the decommissioning process.

3. **If you plan to operate** any of the tanks listed on page 1, **and deposit any regulated substance** into the tanks after on or after December 23, 1998, **you must return page 2, a completed and signed *General Permit to Operate Registration Form*** to the Department by no later than 5:00 PM on Friday December 4, 1998. If necessary, a copy of the completed form can be faxed to us at (503) 229-6954. We can not guarantee that we can process any forms received after December 4, 1998 by December 22, 1998. **Completed forms must be returned to:**

Department of Environmental Quality
UST Program
811 SW 6th Avenue
Portland, OR 97204

4. If for any reason your information does not correspond to our preliminary determination of tank status, please provide an explanation on page 2 of the form. After mailing the form to DEQ, contact the appropriate regional office listed on page 4 and discuss what changes you made on the tank status for this facility. It will speed the processing of your form.

5. If you have any other questions regarding this mailing, please call our toll-free UST Helpline at 1-800-742-7878 (In Oregon) or call direct (503) 229-6652.

STEEL ISLAND DSC TANK

Oregon Department of Environmental Quality

UNDERGROUND STORAGE TANK DECOMMISSIONING/CHANGE-IN-SERVICE 30-DAY NOTICE

FACILITY (Location of Tanks)

Name: Tosco Distribution Co. Formerly Unocal 76 Products

Address: 5528 NW Doane St.

PORTLAND, OR. 97210

Phone: 503-~~227~~ 248-1558

TANK OWNER

Name: Tosco Distribution Co.

Address: 5528 NW Doane St.

PORTLAND, OR. 97210

Phone: 503-248-1558

DEQ Facility I.D. Number: ORD087458196 I.D 1203

Work To Be Performed By: CET Environmental Services License # 14411

(Owner or Licensed Service Provider)

Phone: Scott 227-5892 Mobile Phone: 819-5795

THIS FORM MUST BE SUBMITTED BY UST OWNER OR OPERATOR 30 DAYS BEFORE START OF WORK

YOU MUST CONTACT YOUR LOCAL DEQ REGIONAL OFFICE 3-DAYS BEFORE STARTING ANY DECOMMISSIONING WORK. (Phone numbers are listed on reverse)

Will tank removal or potential cleanup affect adjacent property or Right-of-Way property? Yes ____ No ✓

Date decommissioning is scheduled to begin: Dec 1, 98

			PRODUCT: GASOLINE, DIESEL, USED OIL, OTHER?		CLOSURE OR SERVICE CHANGE?			TANK TO BE REPLACED?	
TANK ID #	DEQ-UST PERMIT #	TANK SIZE IN GALLONS	PRESENT	NEW	TANK REMOVAL	CLOSURE IN PLACE♦	OTHER USE♦	YES*	NO
0608-~~0000~~3	ADFHE	6000	Diesel			✓			✓

* If decommissioned tank(s) are to be replaced by new underground storage tanks you must submit a new permit application containing information on the new tanks 30 days before placing them in service.

♦ Submit a soil sampling plan to the DEQ regional office and receive plan approval prior to starting work if (1) tank is to be decommissioned in-place, (2) tank contents are changed to an unregulated substance, (3) tank contains a regulated substance other than petroleum, or (4) tank is changed to an unregulated use.

Signature: Roger McClain Date: 11-21-97

(Owner or Operator)

THIS NOTICE AND THE 3-DAY TELEPHONE NOTICE ARE REQUIRED prior to starting decommissioning work on a regulated underground storage tank (UST). Decommissioning work includes but is not limited to excavation and removal of the tank and its appurtenances, removal of underground piping (product, vent and vapor recovery piping), soil sampling, and groundwater sampling. (See 40 CFR 280.71 through 40 CFR 280.74 as amended by OAR 340-150-003).

THIS NOTICE IS NOT REQUIRED for decommissioning unregulated tanks. To determine whether an underground tank is regulated please refer to 40 CFR 280.10 for UST's that are excluded or deferred from regulation, and 40 CFR 280.12 for the definition of a UST, or contact DEQ. (Examples are heating oil, and most residential or farm motor fuel tanks under 110 gallons.)

ALL PAST DUE UST PERMIT FEES MUST BE PAID before this decommissioning notice will be accepted by DEQ. Please contact DEQ for UST permit application forms, if necessary.

MAKE SURE THIS FORM IS COMPLETE WITH ALL ATTACHMENTS. A notice that is incomplete, (or without a permit application or without permit fee, where needed) will not be accepted as the 30 Day Notice until it is complete.

RETURN COMPLETED AND SIGNED FORM TO THE DEQ REGIONAL OFFICE FOR YOUR AREA.
(Addresses are listed below).

3-DAY NOTICE: Contact your local DEQ Regional Office 3-days before starting work.
(Phone numbers are listed below).

EASTERN REGION / BEND
2146 NE 4th, #104
Bend, OR 97701
Phone: (541) 388-6146
Fax: (541) 388-8283

EASTERN REGION / THE DALLES
400 E. Scenic Drive, #307
The Dalles, OR 97058
Phone: (541) 298-7255
Fax: (541) 298-7330

EASTERN REGION / PENDLETON
700 SE Emigrant, Suite 330
Pendleton, OR 97801
Phone: (541) 276-4063
Fax: (541) 278-0168

WESTERN REGION / SALEM
750 Front Street NE, Suite 120
Salem, OR 97310
Phone: (503) 378-8240
Fax: (503) 373-7944

WESTERN REGION / EUGENE
1102 Lincoln Street, Suite 210
Eugene, OR 97401
Phone: (541) 686-7838
Fax: (541) 686-7551

WESTERN REGION / MEDFORD
201 Main Street, Suite 2-D
Medford, OR 97501
Phone: (541) 776-6136, Ext. 233
Fax: (541) 776-6262

NORTHWEST REGION
2020 SW 4th Avenue, Suite 400
Portland, OR 97201-5884
Phone: (503) 229-5263
Fax: (503) 229-6945

For information or assistance with this form call (503) 229-5733 or the UST HELPLINE:
1-800-742-7878 (Toll Free in Oregon).

State of Oregon
Department of Environmental Quality

INVOICE

Site Name: UNOCAL PORTLAND TERMINAL
Project No: T3510900
Authorization:

Invoice Number: USTC98-0531
Invoice Date: 9/24/1997

Tosco
UST REMEDIAL
Attn: Roger McGowne
5528 NW Doane Ave.
Portland, OR 97210

Payment Due: 10/24/1997

Project Expenditures:		Billing Period 08/97
Personal Services	$	27.12
Attorney General		0.00
Travel		0.00
Services and Supplies		0.00
Contract Payments		0.00
Capital Outlay		0.00
Agency Indirect Cost		5.32
WMCD Indirect Cost		50.71
Cleanup Law Rewrite		3.25
Total Current Charges:	$	86.40

340-35-70502 - 330 840-000 -301
Roger McGowne
ROGER McGOWNE
SEP 30 1997

Previous Balance	Billing Period Expenditures	Interest	Total Balance Due
0.00	86.40	0.00	**86.40**

---------- Cut here and return this portion with payment ----------

Remit and make checks payable to:

Dept. of Environmental Quality
Attn: Business Office
811 SW Sixth Avenue
Portland, OR 97204-1390

Check box if your address has changed and complete back of invoice: ☐

Site Name: UNOCAL PORTLAND TERMINAL
Project No: T3510900
Log Number: 26-97-0577

Invoice Number: USTC98-0531
Amount Enclosed:

Current	31-60 Days	61-90 Days	90+ Days	Total Due
86.40	0.00	0.00	0.00	86.40

State of Oregon
Department of Environmental Quality

Project Expenditures Line Descriptions:

Personal Services: Compensation paid to DEQ employees for work performed directly on this project. Includes items such as salaries and wages, employee fringe benefits, and employer payroll taxes.

Attorney General: Payments made to Dept. of Justice for services rendered specific to this project.

Travel: Payments made to DEQ employees for costs of official business travel specifically related to this project. Payments are made in accordance with State travel rules and include items such as motor pool car usage, other transportation costs, meals, and lodging.

Services & Supplies: Payments made for miscellaneous services and supplies directly related to this project. Includes such items as utilities, film processing, and public notices.

Contract Payments: Payments made to contractors for work performed on this project.

Captital Outlay: Payments made for project specific equipment that costs more than $5,000, can be used more than once, and has a useful life of more than two years.

Agency Indirect Cost: Costs of Agency central services including operations of accounting, computer support systems, budget, human resources and the Agency Director's office. The rate is reviewed and approved annually by the federal government and is applied to the personal services costs charged directly to each environmental investigation or cleanup project.

WMCD Indirect Cost: Costs incurred by the Waste Management and Cleanup Division (WMCD) staff in support of site cleanup. Activities such as clerical, technical guidance or policy development, records management, and Division management that are attributable to project work, but are not site-specific, are charged as WMCD indirect. The rate is calculated annually and applied to direct personal services costs.

Cleanup Rule Rewrite: A charge assessed as a result of a requirement arising out of the '95-'97 State Legislature to rewrite the Cleanup rules. The rate is 12% of direct personal service costs.

For billing questions, call (503) 229-5812 or 1-800-452-401
TTY: (503) 229-6993

Enter change of address below:

_____
(Organization Name)

_____
(Contact Name)

_____
(Address)

_____
(City, State, Zip)

State of Oregon
Department of Environmental Quality

INVOICE

Site Name: UNOCAL PORTLAND TERMINAL
Project No: T3510900
Authorization:

Invoice Number: USTC98-0853
Invoice Date: 10/28/1997

Tosco
Attn: Roger McGowne
5528 NW Doane Ave.
Portland, OR 97210

Payment Due: 11/27/1997

Project Expenditures:	Billing Period 09/97
Personal Services	5.06
Attorney General	0.00
Travel	0.00
Services and Supplies	0.00
Contract Payments	0.00
Capital Outlay	0.00
Agency Indirect Cost	0.99
WMCD Indirect Cost	9.46
Cleanup Law Rewrite	0.61
Total Current Charges:	$ 16.12

ROGER McGOWNE
300-3570502-930840000-302 $
ROGER McGOWNE
OCT 30 1997

Previous Balance	Billing Period Expenditures	Interest	Total Balance Due
0.00	16.12	0.00	16.12

---------- Cut here and return this portion with payment ----------

Remit and make checks payable to:

Check box if your address has changed and complete back of invoice: ☐

Dept. of Environmental Quality
Attn: Business Office
811 SW Sixth Avenue
Portland, OR 97204-1390

Site Name: UNOCAL PORTLAND TERMINAL
Project No: T3510900
Log Number: 26-97-0577

Invoice Number: USTC98-0853
Amount Enclosed:

Current	31-60 Days	61-90 Days	90+ Days	Total Due
16.12	0.00	0.00	0.00	16.12

State of Oregon
Department of Environmental Quality

Project Expenditures Line Descriptions:

Personal Services:	Compensation paid to DEQ employees for work performed directly on this project. Includes items such as salaries and wages, employee fringe benefits, and employer payroll taxes.
Attorney General:	Payments made to Dept. of Justice for services rendered specific to this project.
Travel:	Payments made to DEQ employees for costs of official business travel specifically related to this project. Payments are made in accordance with State travel rules and include items such as motor pool car usage, other transportation costs, meals, and lodging.
Services & Supplies:	Payments made for miscellaneous services and supplies directly related to this project. Includes such items as utilities, film processing, and public notices.
Contract Payments:	Payments made to contractors for work performed on this project.
Capital Outlay:	Payments made for project specific equipment that costs more than $5,000, can be used more than once, and has a useful life of more than two years.
Agency Indirect Cost:	Costs of Agency central services including operations of accounting, computer support systems, budget, human resources and the Agency Director's office. The rate is reviewed and approved annually by the federal government and is applied to the personal services costs charged directly to each environmental investigation or cleanup project.
WMCD Indirect Cost:	Costs incurred by the Waste Management and Cleanup Division (WMCD) staff in support of site cleanup. Activities such as clerical, technical guidance or policy development, records management, and Division management that are attributable to project work, but are not site-specific, are charged as WMCD indirect. The rate is calculated annually and applied to direct personal services costs.
Cleanup Rule Rewrite:	A charge assessed as a result of a requirement arising out of the '95-'97 State Legislature to rewrite the Cleanup rules. The rate is 12% of direct personal services costs.

For billing questions, call (503) 229-5812 or 1-800-452-401
TTY: (503) 229-6993

Enter change of address below:

(Organization Name)

(Contact Name)

(Address)

(City, State, Zip)

Jill- FYI

Tosco Lube on the loose

Spill Project Tosco Lube Oil **TAS #** _____ **OERS #** 97-3074

NOTIFICATION: OERS Contact Romey DEQ Contact DEP Time/Date Reported 22:18 12/19/97

Reporting Party Tosco NW Phone 248-1517

SOURCE: Unknown Multiple (also circle all that apply) AST (Bulk Petroleum Storage) Construction Site Container
Drug Lab Drum Electrical Equipment Farm Industrial Plant Heating Oil AST Heating Oil UST Landfill
[Motor Vehicle] - Private - Commercial - Tank Truck Mine Pipeline Railway Sewer Bypass UST
[Vessel] - Cargo - Tanker - Fishing - Public - Recreational - Barge Well Other (describe below)

CAUSE: Unknown Multiple (also circle all that apply) Abandonment/Dumping Collision Derailment (Equipment Failure)
Fire Human Error Vandalism [Vessel] - Grounding - Sinking Other (describe below)

ACTIVITY: Unknown Bilge Pumping Bunkering Dam Construction/Maintenance Lightering Mining
[Material Handling] - Application (Storage) - Transfer - Transport - Refueling Other (describe below)

WEATHER: Cold Fog Hot Rain Snow/Ice Other (describe below)

SUBSTANCE(S) RELEASED: Unknown Multiple (also circle all that apply) Animal Waste Chemical Product
Drug Lab Waste Food Waste Hazardous Waste Herbicide Insecticide Medical Waste PCBs
[Oil] - Crude -Diesel - Fuel - Gasoline - Heating - Hydraulic (- Lube) - Transformer - Waste Oil - Oil (Unknown)
Radioactive Sewage Solid Waste Wastewater (non-sewage) Other (describe below)

Release Start Time/Date 1600 12/19/97 Release Stopped Time/Date (if different) 12/19/98 17:15

Additional information on Source, Cause, Activity, Weather and Substance (actual/potential volume, physical state, etc.):
2000 gallons of lube oil released to concrete containment around tank. Some soil areas in containment. Recovered 1800 gallons so far. CET to steam clean tomorrow. Unigliide is product, saw glide oil. - Medium viscosity (50 wt).

MEDIA AFFECTED: Air Groundwater Surface Water (Soil) Sediment (Pavement Concrete)

Nearest Stream or River/Name/Description/etc. Willamette River

SPILL SITE: Tosco Plant Contact _____ Phone _____

Address 5528 NW Doane City Portland Zip 97210 County Mult

Where on site? _____

Directions if no address _____

RESPONSIBLE PARTY: Tosco ~~Refining~~ Distribution Co. Contact Marty Cramer Phone 248-1517

Address _____ City/State _____ Zip _____

Mailing Address 5528 NW Doane City/State Portland, OR Zip 97210

RP Notified? - Yes No Assumed Responsibility? - Yes No Contractor Hired? - Yes No

CLEANUP CONTRACTOR: _____ Field Rep _____ Phone _____

Address _____ City/State _____ Zip _____

ON-SITE CONTACT: Marty Cramer Affiliation Tosco Dist. Phone 248-1517

_____ Affiliation _____ Phone _____

FUNDING: Air Quality Water Quality Solid Waste Haz Waste (Haz Spill) Highway OPA

TAS Initiated? ☒ SPIN Entered? ☐ SPIN Updated? Initial Letter Sent? - (Yes) No

REPORT REQUIRED? - (Yes) No Date Required 1-12-98 Date Received 1-12-98

DEQ Contractor Project # _____ Date File Completed 2-20-98 By (initials) _____ ☒ Close TAS

Revised: 8/21/97

AGENCIES NOTIFIED:

SITE VISIT DATE/TIME:

DEQ PROGRAM REFERRALS Air (ECD) Enforcement Haz Waste Solid Waste Tanks Water

Date/Reason 2-20-98 - Info for Willbridge files NON #

Was there a threat to public safety? Yes No Explain

Was Public Affairs notified? Yes No Name/Time/Date

Potential for Future Releases? Yes No Explain

Disposal of Cleanup Materials

EVALUATION OF THE RELEASE

____ Release **MAY POSE** a significant threat; **further review** or investigation is recommended (see Referrals above).

X Release **POSES NO** significant threat; **no further action** required because:

____ Release by its nature rapidly dissipates (air emissions, sewage spills).

X Release has been cleaned up to a protective level.

____ Release otherwise requires no additional investigation, removal, remedial action, or long-term environmental or institutional controls.

Evaluator's Signature Loren Garner Date 2-20-98

Notes - Additional information pertaining to the spill incident, site characteristics, cleanup actions, and rationale for whether or not further cleanup is needed. Attach all correspondence, field notes, reports, site sketches, etc.

12-22-97 13:05 Quantity revised to 2500 gallons, (Marty Cramer) caused by a pump failure, or gasket at the pump. Nothing into storm water system. Soil contamination remains - will remove soil that was impacted. Older problem in the same area is part of a Dept. Consent Decree. They will proceed with cleanup and documentation.

1-15-98

14:17 Left a message for Marty Cramer inquiring about the soil removal. I also want to discuss the delay in reporting.

1-21-98 16:50 Call ~~from~~ to Marty Cramer (Returned msg of 1/15/98) We discussed the delay in reporting - had thought it wasn't reportable due to containment, but discovered soil issue for themselves. The soil removal should proceed ≈ 3 Feb 98. They have pre-existing contamination and intend to fully remove the current spill, but

OERS - (800) 452-0311 continue the longterm process for the old historic problem.

SPILL/RELEASE REPORT

1 - GENERAL INFORMATION

OERS No. 97-3074

a. Company/Individual Name: 76 LUBRICANTS CO., A DIVISION OF TOSCO CORPORATION

b. Address: 5528 N.W. DOANE AVE

PORTLAND, OREGON 97210

c. Company Contact Person: MARTY CRAMER

d. Phone Number(s): 503-248-1517

e. Specific on-site location of the release (and address if different from above):

SAME AS ABOVE

Please provide a map of the site showing area(s) where the release occurred, any sample collection locations, location of roads/ditches/surface water bodies, etc.

2 - RELEASE INFORMATION

a. Date/Time Release started: 1-19-97; 16:00 hrs Date/Time stopped: 1-19-97; 17:15 hrs.

b. Release was reported to (specify Date/Time/Name of Person contacted where applicable):

ODEQ 12-19-97 VIA OERS

OERS 12-19-97, 22:20 hrs., Randy Parr - he contacted ODEQ

~~NRC~~ 12-23-97, 16:10 hrs, PDX BUREAU OF ENVIRONMENTAL SERVICES, STEVE ROSENBERGER

Other (describe): 12-19-97, 22:15 hrs, CITY OF PORTLAND, ERIC DEBERRY

c. Person(s) reporting release: MARTY CRAMER - TOSCO ENVIRONMENTAL REMEDIATION.

d. Name, quantity and physical state (gas, liquid, solid or semi-solid) of material(s) released:

NAME: UNIGLIDE 100 (LUBRICATING OIL). QUANTITY: @ 2000 GALLONS.

PHYSICAL STATE: LIQUID.

Please attach copies of material safety data sheets (MSDS) for released material(s).

e. The release affected: ✓ Air ✓ Groundwater ___ Surface Water ✓ Soil ___ Sediment

f. Name and distance to nearest surface water body(s), even if unaffected (include locations of creeks, streams, rivers and ditches that discharge to surface water on maps):

WILLAMETTE RIVER. DISTANCE: @ 1500 FEET N.E. OF SPILL LOCATION

Has the release reached the surface water identified above?: ___ Yes ✓ No

Could the release potentially reach the surface water identified above? ___ Yes ✓ No

Explain: SITE WATER DRAINS INTO AN ON-SITE OIL/WATER SEPERATOR WHICH DISCHARGES INTO THE CITY SEWER SYSTEM.

g. Depth to nearest aquifer/groundwater: 12 FEET

Is nearest aquifer/groundwater potable (drinkable)? ___ Yes ✓ No

Has the release reached the nearest aquifer/groundwater? ___ Yes ✓ No

Explain: OIL WAS EXTREMELY VISCOUS AND DID NOT PENETRATE SOIL MORE THAN ONE FOOT IN DEPTH.

h. Release or potential release to the air occurred? ✓ Yes ___ No

Explain: OIL PRODUCT HAS VERY LOW VOLITILITY, THEREFORE RELEASE TO AIR WAS MINIMAL.

i. Was there a threat to public safety? ___ Yes ✓ No

j. Is there potential for future releases? ✓ Yes ___ No

Explain: MECHANICAL/EQUIPMENT FAILURE IS A POTENTIAL FOR FUTURE RELEASE.

k. Describe other effects/impacts from release (emergency evacuation, fish kills, etc.):

PRODUCT INVOLVED WAS OF A NON HAZARDOUS CLASSIFICATION - EMERGENCY EVACUATION NOT NECESSARY, EXPOSURE TO FISH KILL NOT AN ISSUE SINCE PRODUCT WAS CONTAINED ON SITE.

l. Describe how the release occurred. Include details such as the release source, cause, contributing weather factors, activities occurring prior to or during the release, dates and times of various activities, first responders involved in containment activities, etc.:

(SEE ATTACHED) - INCIDENT INVESTIGATION REPORT, "FACTUAL INFORMATION"

3 - SITE INFORMATION

a. Adjacent land uses include (check all that apply and depict on site maps):
___ Residential ___ Commercial ___ Light Industrial ✓ Heavy Industrial
___ Agricultural ___ Other (describe): _____

b. What is the population density surrounding the site: MINIMAL - PRIMARILY INDUSTRIAL

c. Is the site and/or release area secured by fencing or other means? ✓ Yes ___ No

d. Soil types (check all that apply): ___ alluvial ___ bedrock ___ clay ✓ sandy
✓ silt ___ silty loam ✓ artificial surface (cement/asphalt/etc.)

e. Describe site topography: RELATIVELY FLAT WITH LOCALIZED GRADING TOWARDS PROCESS WATER CATCH BASINS.

4 - CLEANUP INFORMATION

a. Was site cleanup performed? ✓ Yes ___ No

If No, explain: _____

b. Who performed the site cleanup?

Company Name: TOSCO	C.E.T.
Address: 5528 N.W. DOANE AVE	5315 N.W. ST. HELENS RD.
PORTLAND, OREGON 97210	PORTLAND, OREGON 97210
Cleanup Supervisor: ROGER McGOWNE	SCOTT GILFILLAN
Phone Number(s): 503-248-1558	503-227-6797

c. Has all contamination been removed from the site? ___ Yes ✓ No

If No, explain: WATER CONTAMINATION PUMPED TO LOCAL TANK STORAGE FOR SEPERATION OF OIL AND WATER. SOIL/GRAVEL CONTAMINATION TO BE REMOVED BY C.E.T.

d. Estimated volume of contaminated soil removed: NONE TO DATE

e. Estimated volume of contaminated soil left in place: 4.0 CUBIC YARDS (TO BE REMOVED)

f. Was a hazardous waste determination made for cleanup materials? ✓ Yes ___ No

g. Based on the determination, are the cleanup materials hazardous wastes?

___ Yes ✓ No If Yes, list all waste codes: _____

h. Was contaminated soil or water disposed of at an off-site location? ___ Yes ✓ No

If yes, attach copies of receipts/manifests/etc., and provide the following information:

Facility Name: CONTAMINATED SOIL TO BE TAKEN TO T.P.S. TECHNOLOGIES INC.

Address: 9333 N. HARBORGATE ST.
PORTLAND, OREGON 97203

Facility Contact: STEVE EMMONS

Phone Number(s): 503-735-9525

i. Is contaminated soil or water being stored and/or treated on-site? ✓ Yes ___ No

If yes, please describe the material(s), storage and/or treatment area, and methods utilized (attach additional sheets if necessary):

CONTAMINATED WAS PUMPED INTO ON-SITE STORAGE TANK TO ALLOW FOR OIL AND WATER SEPERATION. WATER DECANTED INTO PROCESS WATER SEPERATOR. OIL STORED IN ON-SITE SUMP TANK.

j. Describe cleanup activities including what actions were taken, dates and times actions were initiated and completed, volumes of contaminated materials that were removed, etc. (attach additional sheets or contractor reports if necessary or more convenient):

(SEE ATTACHED) - INCIDENT INVESTIGATION REPORT, "FACTUAL INFORMATION"

5 - SAMPLING INFORMATION

Attach copies of all sample data and indicate locations of sample collection on maps.

a. Were samples of contaminated soil collected? ___Yes _✓_No ___N/A
b. Were samples of contaminated water collected? ___Yes _✓_No ___N/A
c. Were samples collected to show that all contamination had been removed?
___Yes _✓_No ___N/A
d. Describe sampling activities, results and discuss rationale for sampling methods:

WILL COLLECT SAMPLES OF CONTAMINATED SOIL PRIOR TO EXCAVATION ACTIVITIES. CONFIRMATION SAMPLES WILL ALSO BE TAKEN FOLLOWING COMPLETION OF EXCAVATION.

6 - SPILL REPORT CHECKLIST

To ensure that you have gathered all the information requested by the Department in this Spill/Release Report, please complete the following checklist:

_✓_ Map(s) of the site showing buildings, roads, surface water bodies, ditches, waterways, point of the release, extent of contamination, areas of excavation and sample collection locations attached.

_✓_ Material Safety Data Sheet (MSDS) for released material(s) attached.

_N/A_ Sampling data/analytical results attached.

_N/A_ Receipts/manifests (if any) for disposal of cleanup materials attached.

_N/A_ Contractor reports (if any) attached.

ATTACHMENT

At the 76 Lubricants Company Portland Terminal on 12/19/97 at 16:00hrs., upon completing his shift, the blending department lead man related turnover information to remaining blending personnel indicating a RR tank car pump-off in progress as well as a visual confirmation at @ 16:00 hrs. of the tank transfer of Uniguide 100 from tank 4388 via the new air pump to tank 4321. At 16:55 hrs., upon finishing bulk truck loading and related paperwork remaining blending personnel returned to the blending room office and checked the status of both transfers on the computer tank gauge display screen. Previous verification confirmed that both products would properly fit into the respective tanks being filled. After this status check he proceeded to take a coffee break in the terminal boiler room.

After 15 minutes (@ 17:10 hrs.) blending personnel returned to the blending room office to review the daily activity sheet which indicated remaining work responsibilities to be performed by the end of his shift. He then proceeded outside to physically inspect both transfers. At this time (@17:15 hrs.) he observed an oil spill of the Uniguide 100 product that covered approximately a 25 by 60 foot dimension of the lower lube pump cell area directly next to the warehouse. He immediately contacted the terminal head operator and then proceeded to turn off the air pump at the barrel filler control panel. At @ 17:25 hrs. he then contacted the warehouse production foreman who was still on the premises.

The Terminal Head Operator confirmed that oil product from the spill had not reached the oil water separator and upon recommendation from the Terminal Maintenance Supervisor he turned off valves and pumps at Lift Station #1 - directly west of the bulk lube oil loading rack – to prevent the possibility of feeding spilled oil product to the oil water separator. Arrangements were made to immediately begin removing oil product from both manhole # 1 and Lift Station #1 by use of a company portable sump pump/ slop tank.

It was determined from before and after tank gauging information that @ 2000 gallons of product was released from the spill. On the evening of the incident approximately 1800 gallons of product was recovered by the company portable sump pump/ slop tank from Manhole #1 and Lift Station #1 and then pumped into slop tank 36. Absorbent pads were also placed throughout the spill area that evening.

On 12/20/97 beginning at @ 6:00 A.M. an additional 900 gallons of oil and water were pumped out of Man Hole #1 and Lift Station #1 by members of the maintenance department using the company portable sump pump/ slop tank. At @ 10:00 A.M. a 4000 gallon capacity vacuum truck from C.E.T. arrived on scene and proceeded to pump out additional oil/ water accumulation from the lube cell where the spill occurred . Rain accumulation from the previous evening had caused additional water to fill the lube cell area since drainage could not occur after valves and pumps to the oil water separator had been disengaged at Lift Station #1.

That same morning the remainder of the spilled product which had sprayed onto property equipment and walking surfaces was power washed by company personnel and vacuum pumped by C.E.T. at the lube cell site.

All water contaminated in this incident was pumped into slop tank #36.

Soil/ gravel contamination in lower lube cell spill site is estimated at @ 3.5 cubic yards. Gravel mixture will be removed and replaced by C.E.T. Contaminated mixture will be disposed off site at T.P.S. Technologies, Inc.

Company personnel from Administration, Environmental, H.E.S. , and Maintenance departments were at the scene the night of the spill and the following morning to coordinate incident investigation, clean up strategies, and notification requirements. The Tosco Portland Terminal Environmental Remediation Specialist, contacted regulatory agencies. The City of Portland was contacted on 12/19/97 at 22:15 hrs., the OERS contacted on 12/19/97 at 22:20 hrs., the ODEQ on 12/19/97 via OERS, and the Portland Bureau of Environmental Services on 12/23/97 at 16:10 hrs.

Spill Project Chevron U/G Pipe **TAS #** _____ **OERS #** 01-0485

NOTIFICATION: OERS Contact Joseph DEQ Contact Jack Wylie Time/Date Reported 2/2307 March 2001

Reporting Party NRC Report #558435 Phone _____

SOURCE: ☐ Aircraft ☐ AST XX Bulk Petroleum Storage ☐ Business ☐ Construction Site ☐ Container ☐ Dam ☐ Drug Lab ☐ Drum ☐ Electrical Equipment ☐ Farm ☐ Heating Oil AST ☐ Heating Oil UST ☐ Heavy Equipment ☐ Industrial Plant ☐ Landfill ☐ Mine ☐ Pipeline ☐ Railway ☐ Sewer ☐ UST ☐ Well ☐ Unknown ☐ Other [Motor Vehicle] ☐ - Private ☐ - Commercial ☐ - Tank Truck [Vessel] ☐ - Cargo ☐ - Tanker ☐ - Fishing ☐ - Public ☐ - Recreational ☐ - Barge ☐ - Tug

CAUSE: ☐ Abandonment/Dumping ☐ Collision ☐ Derailment XX Equipment Failure ☐ Fire ☐ Human Error ☐ Sewer Bypass ☐ Vandalism ☐ Unknown ☐ Other [Vessel] ☐ - Grounding ☐ - Sinking

ACTIVITY: ☐ - Bilge Pumping ☐ - Bunkering ☐ - Construction ☐ - Lightering ☐ - Maintenance ☐ - Mining ☐ - Unknown ☐ - Other [Material Handling] ☐ - Application XX - Storage ☐ - Transfer ☐ - Transport ☐ - Refueling

WEATHER: ☐ - Cold ☐ - Fog ☐ - Hot ☐ - Rain ☐ - Snow/Ice ☐ - Other

SUBSTANCE(S) RELEASED: ☐ Animal Waste ☐ Chemical Product ☐ Drug Lab Waste ☐ Food Waste ☐ Hazardous Waste ☐ Other ☐ Herbicide ☐ Insecticide ☐ Medical Waste ☐ PCBs ☐ Radioactive ☐ Sewage ☐ Solid Waste ☐ Wastewater (non-sewage) ☐ Unknown [Oil] ☐ -Diesel ☐ - Fuel XX - Gasoline ☐ - Heating ☐ - Hydraulic ☐ - Lube ☐ - Transformer ☐ - Waste Oil ☐ - Oil (Unknown)

Release Start Time/Date Discovered 2/1930 Release Stopped Time/Date (if different) _____

Additional information on incident: **Quantity** Unknown ☐ - Gallons ☐ - Pounds ☐ - Other

Underground pipe leaking. Cause unknown. Spill secured. No off-site or waterway impact.

Loading rack shut down. Testing lines to detect and repair source. 1200 feet from the Willamette River.

No sheen visible. No answer at either number given for RP.

MEDIA AFFECTED: ☐ Air ☐ Groundwater ☐ Surface Water ☐ Soil ☐ Sediment XX Pavement

Nearest Stream or River/Name/Description/etc. _____

SPILL SITE: Chevron Products Contact Gene Ketcham Phone (503) 221-6579

Address 5531 NW Doane Ave City Portland Zip 97210 County Multnomah

Where on site? _____ Lat./Long. _____

Directions if no address _____

RESPONSIBLE PARTY: Chevron Products Contact Gene Ketcham Phone (503) 221-6579

Address 5924 NW Front Ave. City/State Portland, OR Zip 97210

Mailing Address _____ City/State _____ Zip _____

RP Notified? - XX Yes ☐ No Assumed Responsibility? - XX Yes ☐ No Contractor Hired? - ☐ Yes XX No

CLEANUP CONTRACTOR: _____ Field Rep _____ Phone _____

Address _____ City/State _____ Zip _____

ON-SITE CONTACT: same Affiliation _____ Phone _____

_____ Affiliation _____ Phone _____

FUNDING: ☐ Air Quality ☐ Water Quality ☐ Solid Waste ☐ Hazardous Waste ☐ Hazardous Spill ☐ Highway ☒ OPA

REPORT REQUIRED? - ☒ Yes ☐ No Date Required _____ Date Received _____ ☐ Initial Letter Sent?

☐ Min. ☒ Typ. ☐ Sig. ☐ TAS Initiated? ☐ SPIN Updated? ☐ Close TAS **DEQ Contractor Project #** _____

Revised: 1/3/2000

OERS # 01- 0485

AGENCIES NOTIFIED: _____

_____

SITE VISIT DATE/TIME: _____

DEQ PROGRAM REFERRALS ☐ Air ☒ ECD ☐ Enforcement ☐ Hazardous Waste ☐ Solid Waste ☐ Tanks ☐ Water

Date/Reason Jim Kennard X6900 NON # _____

Was there a threat to public safety? ☐ Yes ☐ No Explain UNK

Was Public Affairs notified? ☐ Yes ☒ No Name/Time/Date _____

Potential for Future Releases? ☒ Yes ☐ No Explain UIC Pipe Issues

Disposal of Cleanup Materials _____

EVALUATION OF THE RELEASE

☒ Release **MAY POSE** a significant threat; **further review** or investigation is recommended (see Referrals above).

☐ Release **POSES NO** significant threat; **no further action required because:**

- ☐ Release by its nature rapidly dissipates (air emissions, sewage spills).
- ☐ Release has been cleaned up to a protective level.
- ☐ Release otherwise requires no additional investigation, removal, remedial action, or long-term environmental or institutional controls.

Evaluator's Signature _____ Date 6/14/01

Notes - Additional information pertaining to the spill incident, site characteristics, cleanup actions, and rationale for whether or not further cleanup is needed. Attach all correspondence, field notes, reports, site sketches, etc.

03/0835 - contacted Gene Ketcham at his secondary phone number, (503) 806-1682.

They pressure tested three lines. The regular unleaded line lost 54# of pressure in ten minutes. Therefore, "a strong likelyhood" that it's the problem line! Reconfigured the lines. Spill discovered when workers noticed wet concrete. Close inspection revealed a "very light crack." Product not running in sheets, but little bubbles coming up through the crack. That's "not right." Will do more testing this morning to locate leak source.

Gene claimed he reported the incident to OERS at ~2245. I checked with Colleen at OERS. The OERS records only show

The faxed NRC report. No record of a direct call from the RP. I'll verify with Joseph when he comes on for swing shift.

03/0906 - Gene called OERS and requested I call him. In reviewing his notes from last night it appears that he called WA

OEM rather than OERS. His notes indicate he called (800) 258-5990, and was referred to Mike Sibley at EPA.

GR 3/20/01 Spoke to Gene Ketcham And Requested A Spill Report. Told Jim Kennard About Report Request.

Revised: 1/3/2000

Spill Project Chevron 01-0485 **TAS #** 2355 **OERS # 01-0485**

NOTIFICATION: OERS Contact Joseph DEQ Contact Jack Wylie Time/Date Reported 2/2307 March 2001

Reporting Party NRC Report #558435 Phone

SOURCE: ☐ Aircraft ☐ AST XX Bulk Petroleum Storage ☐ Business ☐ Construction Site ☐ Container ☐ Dam ☐ Drug Lab ☐ Drum ☐ Electrical Equipment ☐ Farm ☐ ~~Heating Oil AST~~ ☐ Heating Oil UST ☐ Heavy Equipment ☐ Industrial Plant ☐ Landfill ☐ Mine ☐ Pipeline ☐ Railway ☐ Sewer ☐ UST ☐ Well ☐ Unknown ☐ Other [Motor Vehicle] ☐ - Private ☐ - Commercial ☐ - Tank Truck [Vessel] ☐ - Cargo ☐ - Tanker ☐ - Fishing ☐ - Public ☐ - Recreational ☐ - Barge ☐ - Tug

CAUSE: ☐ Abandonment/Dumping ☐ Collision ☐ Derailment XX Equipment Failure ☐ Fire ☐ Human Error ☐ Sewer Bypass ☐ Vandalism ☐ Unknown ☐ Other [Vessel] ☐ ~~- Grounding~~ ☐ - Sinking

ACTIVITY: ☐ - Bilge Pumping ☐ - Bunkering ☐ - Construction ☐ - Lightering ☐ - Maintenance ☐ - Mining ☐ - Unknown ☐ - Other [Material Handling] ☐ - Application XX - Storage ☒ - Transfer ☐ - Transport ☐ - Refueling

WEATHER: ☐ - Cold ☐ - Fog ☐ - Hot ☐ - Rain ☐ - Snow/Ice ☐ - Other

SUBSTANCE(S) RELEASED: ☐ Animal Waste ☐ Chemical Product ☐ Drug Lab Waste ☐ Food Waste ☐ Hazardous Waste ☐ Other ☐ Herbicide ☐ Insecticide ☐ Medical Waste ☐ PCBs ☐ Radioactive ☐ Sewage ☐ Solid Waste ☐ Wastewater (non-sewage) ☐ Unknown [Oil] ☐ -Diesel ☐ - Fuel XX - Gasoline ☐ - Heating ☐ - Hydraulic ☐ - Lube ☐ - Transformer ☐ - Waste Oil ☐ - Oil (Unknown)

Release Start Time/Date Discovered 2/1930 Release Stopped Time/Date (if different)

Additional information on incident: Quantity Unknown ☐ - Gallons ☐ - Pounds ☐ - Other

Underground pipe leaking. Cause unknown. Spill secured. No off-site or waterway impact.

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Where on site? Lat./Long.

Directions if no address

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Address 5924 NW Front Ave. City/State Portland, OR Zip 97210

Mailing Address City/State Zip

RP Notified? - XX Yes ☐ No Assumed Responsibility? - XX Yes ☐ No Contractor Hired? - ☐ Yes XX No

CLEANUP CONTRACTOR: Field Rep Phone

Address City/State Zip

ON-SITE CONTACT: same Affiliation Phone

Affiliation Phone

FUNDING: ☐ Air Quality ☐ Water Quality ☐ Solid Waste ☐ Hazardous Waste ☒ Hazardous Spill ☐ Highway ☐ OPA

REPORT REQUIRED? - ☐ Yes ☒ ~~No~~ Date Required Date Received ☐ Initial Letter Sent?

☐ Min. ☒ Typ. ☐ Sig. ☒ ~~TAS~~ Initiated? ☐ SPIN Updated? ☐ Close TAS **DEQ Contractor Project #**

Revised: 1/3/2000

OERS # 01- 0485

AGENCIES NOTIFIED: _____

_____

SITE VISIT DATE/TIME: _____

DEQ PROGRAM REFERRALS ☐ Air ☒ ECD ☐ Enforcement ☐ Hazardous Waste ☐ Solid Waste ☐ Tanks ☐ Water

Date/Reason forwarded to Jill Kiernan - ongoing cleanup site NON # _____

Was there a threat to public safety? ☐ Yes ☐ No Explain _____

Was Public Affairs notified? ☐ Yes ☐ No Name/Time/Date _____

Potential for Future Releases? ☐ Yes ☐ No Explain _____

Disposal of Cleanup Materials _____

EVALUATION OF THE RELEASE

☒ Release **MAY POSE** a significant threat; **further review** or investigation is recommended (see Referrals above).

☐ Release **POSES NO** significant threat; **no further action** required because:

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- ☒ Release otherwise requires no additional investigation, removal, remedial action, or long-term environmental or institutional controls.

Evaluator's Signature _____ Date 3-6-01

Notes - Additional information pertaining to the spill incident, site characteristics, cleanup actions, and rationale for whether or not further cleanup is needed. Attach all correspondence, field notes, reports, site sketches, etc.

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They pressure tested three lines. The regular unleaded line lost 54# of pressure in ten minutes. Therefore, "a strong likelyhood" that it's the problem line! Reconfigured the lines. Spill discovered when workers noticed wet concrete. Close inspection revealed a "very light crack." Product not running in sheets, but little bubbles coming up through the crack. That's "not right." Will do more testing this morning to locate leak source.
Gene claimed he reported the incident to OERS at ~2245. I checked with Colleen at OERS. The OERS records only show The faxed NRC report. No record of a direct call from the RP. I'll verify with Joseph when he comes on for swing shift.
03/0906 – Gene called OERS and requested I call him. In reviewing his notes from last night it appears that he called WA OEM rather than OERS. His notes indicate he called (800) 258-5990, and was referred to Mike Sibley at EPA.
- site is under consent order for cleanup
Jill Kiernan is PM
see also 00-2187

Revised: 1/3/2000

SPILL/RELEASE REPORT

1 - GENERAL INFORMATION OERS No. 01-485

a. Company/Individual Name: Chevron Products Co.

b. Address: 5924 NW FRONT Ave
Portland, OR 97210

c. Company Contact Person: GENE P. Ketchum / J. W. Holmes

d. Phone Number(s): 503 221 6575 / 7714

e. Specific on-site location of the release (and address if different from above):
5531 NW Doane Ave
Portland, OR 97210

Please provide a map of the site showing area(s) where the release occurred, any sample collection locations, location of roads/ditches/surface water bodies, etc.
SEE MAP FIGURES 1-1, 1-2

2 - RELEASE INFORMATION

a. Date/Time Release started: 2/28/01 1100 Date/Time stopped: 3/2/01 1830

b. Release was reported to (specify Date/Time/Name of Person contacted where applicable):
ODEQ { called WERS in error because of list organization - EPA's Mike Sibley
OERS { called back - spoke with Jack Wiley 3/3/01 0845
NRC Mr. Turman, 2/28/01 2142 REPORT # 558435
Other (describe): USCG Mr. Walls 2/28/01 2146

c. Person(s) reporting release: GENE P KETCHAM

d. Name, quantity and physical state (gas, liquid, solid or semi-solid) of material(s) released:
REGULAR UNLEADED Gasoline, estimated 480 gallons SEE ATTACHMENT 3 for calculation and description.
Please attach copies of material safety data sheets (MSDS) for released material(s).

e. The release affected: ___Air ___Groundwater ___Surface Water X Soil ___Sediment

f. Name and distance to nearest surface water body(s), even if unaffected (include locations of creeks, streams, rivers and ditches that discharge to surface water on maps):
Willamette River, Approx. 1200' distant
Has the release reached the surface water identified above?: ___Yes X No
Could the release potentially reach the surface water identified above? X Yes ___No
Explain: could migrate through soil

g. Depth to nearest aquifer/groundwater: SEE ATTACHMENT 1
Is nearest aquifer/groundwater potable (drinkable)? ___Yes ___No
Has the release reached the nearest aquifer/groundwater? ___Yes ___No
Explain:

SPILL/RELEASE REPORT

1. GENERAL INFORMATION — OERS No. 01-485

a. Company/Individual Name: Chevron Products Co.

b. Address: 5924 NW FRONT AVE
Portland, OR 97210

c. Company Contact Person: GENE P Ketchum / J. W. Holmes

d. Phone Number(s): 503 221 6579 / 7711

e. Specific on-site location of the release (and address if different from above):
5531 NW DOANE AVE
Portland, OR 97210

Please provide a map of the site showing area(s) where the release occurred, any sample collection locations, location of roads/ditches/surface water bodies, etc.
SEE MAP FIGURES 1-1, 1-2

2. RELEASE INFORMATION

a. Date/Time Release started: 2/28/01 1100 Date/Time stopped: 3/2/01 1830

b. Release was reported to (specify Date/Time/Name of Person contacted where applicable):
ODEQ {called WERS in error because of list organization. EPA's Mike Sibley
OERS {called back - spoke with Jack Wiley 3/3/01 0845
NRC Mr. Turman, 2/28/01 2142 REPORT # 558435
Other (describe): USCG Mr. Walls 2/28/01 2146

c. Person(s) reporting release: GENE P KETCHUM

d. Name, quantity and physical state (gas, liquid, solid or semi-solid) of material(s) released:
REGULAR UNLEADED GASOLINE, estimated 480 gallons. SEE BACK of this sheet for calculation and description.

Please attach copies of material safety data sheets (MSDS) for released material(s).

e. The release affected: ___ Air ___ Groundwater ___ Surface Water X Soil ___ Sediment

f. Name and distance to nearest surface water body(s), even if unaffected (include locations of creeks, streams, rivers and ditches that discharge to surface water on maps):
Willamette River, Approx. 1200' distant
Has the release reached the surface water identified above?: ___ Yes X No
Could the release potentially reach the surface water identified above? X Yes ___ No
Explain: could migrate through soil

g. Depth to nearest aquifer/groundwater: SEE ATTACHMENT 1
Is nearest aquifer/groundwater potable (drinkable)? ___ Yes ___ No
Has the release reached the nearest aquifer/groundwater? ___ Yes ___ No
Explain:

h. Release or potential release to the air occurred? ___Yes _X_No
Explain: liquid release to soil covered by concrete driveway

i. Was there a threat to public safety? ___Yes _X_No

j. Is there potential for future releases? ___Yes _X_No
Explain: underground line drained, capped. Will route new line above ground.

k. Describe other effects/impacts from release (emergency evacuation, fish kills, etc.):
NONE

l. Describe how the release occurred. Include details such as the release source, cause, contributing weather factors, activities occurring prior to or during the release, dates and times of various activities, first responders involved in containment activities, etc.:
ON 2/28/01 at approx 1100 AN earthquake shook the area. facility operations were immediately stopped. BEFORE RESTART, the facility WAS INSPECTED visually for evidence of damage. FINDING NO damage or leaks, facility operations resumed and carefully monitored. During routine shift INSPECTION ON 3/2/01 1830, AN OPERATOR discovered wet pavement at the TANK TRUCK Loading RACK (TTLR). He smelled GASOLINE but NO spills had been reported by ANY driver. The operator declared AN emergency AND shut down the TTLR. J.W. Holmer, TERMINAL MANAGER WAS CONTACTED. He initiated the emergency response team PETE HARRIS, Terminal Engineer, GENE KETCHAM, TERMINAL ENV. SAFETY & HEALTH SPEC., AND CHRIS BROWN, TERMINAL MECHANIC. McDowell PIPEFITTING/WELDING WAS CONTACTED TO MAKE REPAIRS.

3 - SITE INFORMATION

a. Adjacent land uses include (check all that apply and depict on site maps):
___Residential ___Commercial ___Light Industrial _X_Heavy Industrial
___Agricultural ___Other (describe):

b. What is the population density surrounding the site: N/A

c. Is the site and/or release area secured by fencing or other means? _X_Yes ___No

d. Soil types (check all that apply): ___alluvial ___bedrock ___clay _X_sandy
___silt ___silty loam ___artificial surface (cement/asphalt/etc.)

e. Describe site topography: FLAT AREA COVERED BY CONCRETE AND ASPHALT

4. CLEANUP INFORMATION

a. Was site cleanup performed? ___Yes ___No

If No, explain: SEE ATTACHMENT 2

b. Who performed the site cleanup?

Company Name: _____

Address: _____

_____

Cleanup Supervisor: _____

Phone Number(s): _____

c. Has all contamination been removed from the site? ___Yes X No

If No, explain: ON-GOING REMEDIATION FROM PAST INCIDENT

_____

d. Estimated volume of contaminated soil removed: _____

e. Estimated volume of contaminated soil left in place: _____

f. Was a hazardous waste determination made for cleanup materials? ___Yes ___No

g. Based on the determination, are the cleanup materials hazardous wastes?

___Yes ___No If Yes, list all waste codes: _____

h. Was contaminated soil or water disposed of at an off-site location? ___Yes ___No

If yes, attach copies of receipts/manifests/etc., and provide the following information:

Facility Name: _____

Address: _____

_____

Facility Contact: _____

Phone Number(s): _____

i. Is contaminated soil or water being stored and/or treated on-site? ___Yes ___No

If yes, please describe the material(s), storage and/or treatment area, and methods utilized (attach additional sheets if necessary):

_____

_____

_____

_____

j. Describe cleanup activities including what actions were taken, dates and times actions were initiated and completed, volumes of contaminated materials that were removed, etc. (attach additional sheets or contractor reports if necessary or more convenient):

_____

_____

_____

_____

_____

_____

5 - SAMPLING INFORMATION

Attach copies of all sample data and indicate locations of sample collection on maps.

a. Were samples of contaminated soil collected? ___Yes ___No ___N/A

b. Were samples of contaminated water collected? ___Yes ___No ___N/A

c. Were samples collected to show that all contamination had been removed?
___Yes ___No ___N/A

d. Describe sampling activities, results and discuss rationale for sampling methods:

SEE ATTACHMENT 2

6 - SPILL REPORT CHECKLIST

To ensure that you have gathered all the information requested by the Department in this Spill/Release Report, please complete the following checklist:

✓ Map(s) of the site showing buildings, roads, surface water bodies, ditches, waterways, point of the release, extent of contamination, areas of excavation and sample collection locations attached.

✓ Material Safety Data Sheet (MSDS) for released material(s) attached.

✓ Sampling data/analytical results attached.

___ Receipts/manifests (if any) for disposal of cleanup materials attached.

✓ Contractor reports (if any) attached.

Ketcham, Gene (GPKE)

To: O'Regan, Gerald (GRGN)
Cc: 'png@triax.com'
Subject: RE: Techron Release, Willbridge Terminal, Portland, OR

ATTACHMENT 1

Gerald, Gerry,
Thank you.
Gene

-----Original Message-----
From: O'Regan, Gerald (GRGN)
Sent: October 09, 2000 3:00 PM
To: Ketcham, Gene (GPKE)
Cc: 'png@triax.com'
Subject: RE: Techron Release, Willbridge Terminal, Portland, OR

Gene, please call if you need additional information.

Gerald O'Regan
925-842-3334

-----Original Message-----
From: PNG Environmental, Inc. [SMTP:png@triax.com]
Sent: Monday, October 09, 2000 2:41 PM
To: Gerald O'Regan
Cc: Ketcham, Gene (GPKE)
Subject: Techron Release, Willbridge Terminal, Portland, OR

Gerald and Gene
The following is a response to your request for information concerning the Techron release at the Willbridge Terminal.
The release occurred in an underground Techron product line between the metering pump and the truck rack. The lines are being replaced with overhead lines.

Depth to water - Monitoing well CR-7 is located approximately 50 feet from the truck rack. Depth to water in CR-7 has ranged from nine to twelve feet below ground surface. During drilling and installation of geoprobe wells directly down dragient of the truck rack last friday, the depth to water was approximately 14 feet. This water level may rise during development, due to the silts encountered. The groundwater gradient is fairly steep in the truck rack area and flows toward Doane Ave. and the Willamette River. Well CR-7 has historically contained separate phase product from previous releases and site activities. The SPH is usually less than 0.1 feet.

Soils: The subsurface in the terminal area is comprised of imported dredge spoils overlying Willamette River overbank silts and sand. Prior to development in the early 1900's, the area was a swamp/wetland. The area was drained by a slough that was developed as a storm sewer under Doane Ave. which is adjacent to the truck racks and the release.
Investigation: On Friday 10/6/00, PNG installed six geoprobe wells in the sidewalk area adjacent to the truck rack. Utilities limited the location of the wells. An 8-inch high pressure gas line is located near the sidewalk. Drilling within the truck rack would require shutting down the truck rack, which is already limited by the installation of the new overhead Techron lines. The locations were hand augered to a depth of four feet. The geoprobes were drilled to a total depth of 20 feet. Wells were screened from 5-20 feet with 3/4 inch ID prepack screens. A continuous core of the borings was collected. Samples were collected at one foot intervals from the surface to 16 feet. One additional sample was collected from the 16-20 foot interval.
The area has historicaly been impacted by petroleum product releases. The subsurface soils consisted of lenses of sand, fine silty sand and silt. The soil was black to dark gray to green and emitted petroleum product odors. The impacted soil appeared to be from older releases and not recent releases. Volatile readings (PID) were highest at the groundwater interface and in the silts.
A petroleum sheen was noted in the water in the cores.
Soil samples are being sent to Liz Harvey and North Creek for analysis

for the C-9 Aromatics.
The techron release appeared to be retarded by the shallow soil under the rack. We expected to encounter Techron in the shallow soil, but did not encounter any evidence of the release.
Water: Sampled Monday 10/9/00 No SPH was measured in any of the wells tody. Water samples are currently being collected. Samples will be sent to Liz Harvey and North Creek.

No analytical results. Verbal result from Liz Harvey that a sample from the petroleum seep at the 60 inch storm sewer outfall (appx 1000 feet from release) was primarily weathered diesel fuel with very little C-9 aromatics. This seep was not from the Techron release.

No cleanup activities to date.

If you have any questions, please e-mail or give me a call (503.620.2387)

Gerry

Attachment 2

PNG ENVIRONMENTAL, INC.

MEMORANDUM

To: Gene Ketcham
Chevron Willbridge Terminal

From: Gerry Koschal

Date: March 20, 2001

Subject: Truck Rack Release

On March 2, 2001, a release of gasoline was discovered by Chevron at the gasoline truck loading racks (Racks 1 & 2). The release occurred in underground piping at the truck rack. The lines were tested which indicated that the unleaded gasoline piping system failed. The unleaded system was immediately taken out of service and the fuel re-routed through other existing piping. Gasoline was reportedly seeping from cracks in the concrete pavement. No other surface evidence of the release was noted.

PNG Site Reconnaissance

On Monday March 5, 2001, PNG conducted a site reconnaissance of the Chevron Willbridge Terminal in the area of the gasoline truck racks. Eight existing monitoring wells (Wells CR-7, CR-22A, CR-22B, GPW-1, GPW-2, GPW-3, GPW-4, and GPW-5) are located adjacent and directly down gradient of the truck racks (Figure 1). The wells were gauged as part of the site reconnaissance to determine if the separate phase hydrocarbon (SPH) from the release had migrated to the wells.

SPH was identified only in Well GPW-2. However, SPH had been identified in Well GPW-2 prior to the current release. The SPH appeared to be gasoline, but did not appear to be fresh. The SPH was brown and more viscous than fresh gasoline.

No evidence of the current release was noted in any of the wells.

Previous Groundwater Sampling Events

Wells GPW-1, GPW-2, GPW-3, GPW-4, GPW-5, and CR-22A were installed during the investigation of the Techron release in October 2000. The wells were sampled on October 10, 2000 and the samples analyzed for volatile organic compounds (VOCs) by EPA Method 8260B. The results are shown on Table 1. SPH was not measured in any of the six wells during the October 2000 sampling event. The results of the analyses indicate that although dissolved phase gasoline constituents were detected in all six wells, the ratios of gasoline constituents do not indicate a current gasoline release.

Wells CR-7, CR-22A, CR-22B, GPW-1, and GPW-3 are sampled quarterly as part of the ethanol release investigation. The analytical results for benzene, toluene, ethylbenzene, and xylene (BTEX) are presented in Table 2. The results of the sampling events do not indicate evidence of a recent gasoline release (i.e., the benzene/toluene ratio is >>1)

On February 22, 2001, all eight wells were gauged during groundwater elevation measurements for the Willbridge Terminal Remedial Investigation. SPH was identified in

7130 SW Elmhurst Street
Tigard, Oregon 97223

TEL (503) 620-2387
FAX (503) 620-2977

GPW-2. Well GPW-2 is a 3/4-inch diameter well, with minimal storage capacity. Approximately 10 milliliters of SPH was removed from the well.

Summary

Based on the well gauging during the site visit, no evidence of fresh SPH was identified in the existing wells.

The eight wells are scheduled to be gauged during the first week of April 2001 and five of wells (CR-7, CR-22A, CR-22B, GPW-1, and GPW-3) are scheduled to be sampled as part of the ethanol release investigation. The results of the gauging and BTEX analyses should be compared to the existing data.

The presence of fresh SPH, an increase in BTEX concentrations, or a substantial decrease in the benzene/toluene ratio could be indicators of groundwater impact from the recent gasoline release at the truck racks.

Spill Project CHEVRON TECHRON TAS # _____ OERS # 00-2187

NOTIFICATION: OERS Contact TAMI DEQ Contact WILSON Time/Date Reported 1500 9/12

Reporting Party GENE KETCHAM Phone 806-1692

SOURCE: ☐ Aircraft ☐ AST ☒ Bulk Petroleum Storage ☐ Business ☐ Construction Site ☐ Container ☐ Dam ☐ Drug Lab ☐ Drum ☐ Electrical Equipment ☐ Farm ☐ Heating Oil AST ☐ Heating Oil UST ☐ Heavy Equipment ☐ Industrial Plant ☐ Landfill ☐ Mine ☐ Pipeline ☐ Railway ☐ Sewer ☐ UST ☐ Well ☐ Unknown ☐ Other [Motor Vehicle] ☐ - Private ☐ - Commercial ☐ - Tank Truck [Vessel] ☐ - Cargo ☐ - Tanker ☐ - Fishing ☐ - Public ☐ - Recreational ☐ - Barge ☐ - Tug

CAUSE: ☐ Abandonment/Dumping ☐ Collision ☐ Derailment ☒ Equipment Failure ☐ Fire ☐ Human Error ☐ Sewer Bypass ☐ Vandalism ☐ Unknown ☐ Other [Vessel] ☐ - Grounding ☐ - Sinking

ACTIVITY: ☐ - Bilge Pumping ☐ - Bunkering ☐ - Construction ☐ - Lightering ☐ - Maintenance ☐ - Mining ☐ - Unknown ☐ - Other [Material Handling] ☐ - Application ☐ - Storage ☒ - Transfer ☐ - Transport ☐ - Refueling

WEATHER: ☐ - Cold ☐ - Fog ☐ - Hot ☐ - Rain ☐ - Snow/Ice ☐ - Other

SUBSTANCE(S) RELEASED: ☐ Animal Waste ☐ Chemical Product ☐ Drug Lab Waste ☐ Food Waste ☐ Hazardous Waste ☒ Other ☐ Herbicide ☐ Insecticide ☐ Medical Waste ☐ PCBs ☐ Radioactive ☐ Sewage ☐ Solid Waste ☐ Wastewater (non-sewage) ☐ Unknown [Oil] ☐ -Diesel ☐ - Fuel ☐ - Gasoline ☐ - Heating ☐ - Hydraulic ☐ - Lube ☐ - Transformer ☐ - Waste Oil ☐ - Oil (Unknown)

Release Start Time/Date POSSIBLE JUNE - SEPT Release Stopped Time/Date (if different) 9/12/00

Additional information on incident: Quantity 3260 ☒ Gallons ☐ - Pounds ☐ - Other

UNDERGROUND PIPE FAILED. TECHRON RELEASED UNDER CEMENT SLAB OF THE TRUCK LOADING AREA.

- remediation project already exist - under cement or soil

MEDIA AFFECTED: ☐ Air ☐ Groundwater ☐ Surface Water ☒ Soil ☐ Sediment ☐ Pavement

Nearest Stream or River/Name/Description/etc. WILLAMETTE

SPILL SITE: CHEVRON Contact _____ Phone _____

Address 5531 N. DENVER RD. City PORTLAND Zip _____ County MULT.

Where on site? TRUCK LOAD RACK Lat./Long. _____

Directions if no address _____

RESPONSIBLE PARTY: CHEVRON Contact JERRY HOLMES Phone 221-7714

Address SAME City/State _____ Zip 97210-3607

Mailing Address _____ City/State _____ Zip _____

RP Notified? - ☐ Yes ☐ No Assumed Responsibility? - ☐ Yes ☐ No Contractor Hired? - ☐ Yes ☐ No

CLEANUP CONTRACTOR: _____ Field Rep _____ Phone _____

Address _____ City/State _____ Zip _____

ON-SITE CONTACT: HOLMES Affiliation CHEVRON Phone 221-7714

_____ Affiliation _____ Phone _____

FUNDING: ☐ Air Quality ☐ Water Quality ☐ Solid Waste ☐ Hazardous Waste ☒ Hazardous Spill ☐ Highway ☐ OPA

REPORT REQUIRED? - ☒ Yes ☐ No Date Required 10-11-00 Date Received _____ ☐ Initial Letter Sent?

☐ Min. ☒ Typ. ☐ Sig. ☐ TAS Initiated? ☐ SPIN Updated? ☐ Close TAS DEQ Contractor Project # _____

Revised: 1/3/2000

COPPOR00002519

OERS # 00-

AGENCIES NOTIFIED: _____

SITE VISIT DATE/TIME: _____

DEQ PROGRAM REFERRALS ☐ Air ☐ ECD ☐ Enforcement ☒ Hazardous Waste ☐ Solid Waste ☐ Tanks ☐ Water

Date/Reason JILL KIERNAN IS PM FOR THE SITE CLEANUP. NON # _____

Was there a threat to public safety? ☒ Yes ☐ No Explain MATERIAL CONTAINS BENZENE

Was Public Affairs notified? ☒ Yes ☐ No Name/Time/Date DANAB 1600 9/12

Potential for Future Releases? ☒ Yes ☐ No Explain lines are damaged and need replaced.

Disposal of Cleanup Materials _____

EVALUATION OF THE RELEASE

☒ Release **MAY POSE** a significant threat; **further review** or investigation is recommended (see Referrals above).

☐ Release **POSES NO** significant threat; **no further action** required because:

- ☐ Release by its nature rapidly dissipates (air emissions, sewage spills).
- ☐ Release has been cleaned up to a protective level.
- ☐ Release otherwise requires no additional investigation, removal, remedial action, or long-term environmental or institutional controls.

Evaluator's Signature _____ Date 12/27/00

Notes - Additional information pertaining to the spill incident, site characteristics, cleanup actions, and rationale for whether or not further cleanup is needed. Attach all correspondence, field notes, reports, site sketches, etc.

contacted Jerry Holmes, discussed the spill, he feels it is unlikely the spill is related to the TOSCO problem at the outfall #22.

13 0900 tried to get update, not able to get Holmes

11:00 " " " " "

11:12 Jerry Holmes is looking at down gradient wells for "Texaco" also looked at the TOSCO recovered material, still believe unrelated. The Texaco may have been released slowly since June 00 — they are expecting to possibly leave the spill in place for two years until scheduled removal of the tank farming area is done and do the spill cleanup at that time.

- NWR/DEQ PM is Jill Kiernan

SPILL/RELEASE REPORT

1 - GENERAL INFORMATION OERS No. 00-2187

a. Company/Individual Name: CHEVRON PRODUCTS COMPANY

b. Address: 5924 NW FRONT AVE
PORTLAND OR 97210

RECEIVED

c. Company Contact Person: JERRY HOLMES OR GENE KETCHAM

d. Phone Number(s): 503 221 7714 OR 503 221 6579 OCT 10 2000

e. Specific on-site location of the release (and address if different from above):
TANK TRUCK LOADING RACK AT 5531 NW DOANE AVE NORTHWEST REGION
PORTLAND, OR 97210

Please provide a map of the site showing area(s) where the release occurred, any sample collection locations, location of roads/ditches/surface water bodies, etc.

2 - RELEASE INFORMATION

a. Date/Time Release started: UNKNOWN Date/Time stopped: 9/11/2000 4:00 PM

b. Release was reported to (specify Date/Time/Name of Person contacted where applicable):
ODEQ 9/12/2000 BY OERS
OERS 2:35 PM 9/12/2000. OERS INDICATED IT WOULD NOTIFY ODEQ & PFB
NRC 2:15 PM 9/12/2000
Other (describe):

c. Person(s) reporting release: GENE P. KETCHAM, CHEVRON PRODUCTS CO.

d. Name, quantity and physical state (gas, liquid, solid or semi-solid) of material(s) released:
OIL GAS ADDITIVE (OGA) 600, LIQUID

Please attach copies of material safety data sheets (MSDS) for released material(s).

e. The release affected: ___Air ___Groundwater ___Surface Water _X_Soil ___Sediment

f. Name and distance to nearest surface water body(s), even if unaffected (include locations of creeks, streams, rivers and ditches that discharge to surface water on maps):
WILLAMETTE RIVER, APPROX. 1200 FT. DISTANT

Has the release reached the surface water identified above?: ___Yes _X_No

Could the release potentially reach the surface water identified above? _X_Yes ___No

Explain: GROUNDWATER COULD CARRY RELEASE TO RIVER

g. Depth to nearest aquifer/groundwater: SEE ATTACHED EMAIL.

Is nearest aquifer/groundwater potable (drinkable)? ___Yes ___No

Has the release reached the nearest aquifer/groundwater? ___Yes ___No

Explain:

h. Release or potential release to the air occurred? ___Yes _X_ No
Explain: LIQUID RELEASED TO SOIL AND IS CAPPED BY PAVEMENT

i. Was there a threat to public safety? ___Yes _X_ No
j. Is there potential for future releases? ___Yes _X_ No
Explain: UNDERGROUND LINES HAVE BEEN CAPPED. NEW LINES INSTALLED ABOVE GROUND.

k. Describe other effects/impacts from release (emergency evacuation, fish kills, etc.):
NONE

l. Describe how the release occurred. Include details such as the release source, cause, contributing weather factors, activities occurring prior to or during the release, dates and times of various activities, first responders involved in containment activities, etc.:
PRODUCT QUALITY ASSURANCE SAMPLING TEST RESULTS FROM SERVICE STATION INDICATED PRODUCT DID NOT MEET SPECIFICATION. TERMINAL RECORDS AND METER CALIBRATION INDICATED PRODUCT WAS ON-SPEC. ADDITIVE INJECTION LINES THAT RUN UNDERGROUND FROM METER TO LOADING RACK WERE PRESSURE TESTED TO DETERMINE IF THEY WERE TIGHT. SEVERAL OF THE UNDERGROUND LINES FAILED THE TEST AND WERE IMMEDIATELY REMOVED FROM SERVICE.
QUALITY ASSURANCE BECAME AN ISSUE LATE IN THE 1ST QTR 2000. TERMINAL PERSONNEL INVESTIGATED RECORDKEEPING AND METER CALIBRATION AT THAT TIME. QUALITY ASSURANCE DID NOT FOLLOW UP UNTIL FURTHER SAMPLING IN LATE 2nd QUARTER 2000. TERMINAL INVESTIGATION CONTINUED WITH METER CALIBRATION CHECKS, ADDITIVE SAMPLE ANALYSIS BY CHEVRON RESEARCH. UNDERGROUND LINE TESTING BECAME ONLY POSSIBLE SOURCE, TESTED 9/11/2000.

3. SITE INFORMATION

a. Adjacent land uses include (check all that apply and depict on site maps):
___Residential ___Commercial ___Light Industrial _X_ Heavy Industrial
___Agricultural ___Other (describe):

b. What is the population density surrounding the site: N/A

c. Is the site and/or release area secured by fencing or other means? _X_ Yes ___No

d. Soil types (check all that apply): ___alluvial ___bedrock ___clay _X_ sandy
_X_ silt ___silty loam ___artificial surface (cement/asphalt/etc.)

e. Describe site topography: FLAT AREA COVERED BY CONCRETE AND ASPHALT.

4 - CLEANUP INFORMATION

a. Was site cleanup performed? ____Yes ____No

If No, explain: SEE ATTACHED EMAIL

b. Who performed the site cleanup?

Company Name: _____

Address: _____

_____

Cleanup Supervisor: _____

Phone Number(s): _____

c. Has all contamination been removed from the site? ____Yes ____No

If No, explain: _____

_____

d. Estimated volume of contaminated soil removed: _____

e. Estimated volume of contaminated soil left in place: _____

f. Was a hazardous waste determination made for cleanup materials? ____Yes ____No

g. Based on the determination, are the cleanup materials hazardous wastes?

____Yes ____No If Yes, list all waste codes: _____

h. Was contaminated soil or water disposed of at an off-site location? ____Yes ____No

If yes, attach copies of receipts/manifests/etc., and provide the following information:

Facility Name: _____

Address: _____

_____

Facility Contact: _____

Phone Number(s): _____

i. Is contaminated soil or water being stored and/or treated on-site? ____Yes ____No

If yes, please describe the material(s), storage and/or treatment area, and methods utilized (attach additional sheets if necessary):

_____

_____

_____

_____

j. Describe cleanup activities including what actions were taken, dates and times actions were initiated and completed, volumes of contaminated materials that were removed, etc. (attach additional sheets or contractor reports if necessary or more convenient):

_____

_____

_____

_____

_____

5 - SAMPLING INFORMATION

Attach copies of all sample data and indicate locations of sample collection on maps.

a. Were samples of contaminated soil collected? ____Yes ____No ____N/A
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c. Were samples collected to show that all contamination had been removed?
____Yes ____No ____N/A
d. Describe sampling activities, results and discuss rationale for sampling methods:

SEE ATTACHED EMAIL

6 - SPILL REPORT CHECKLIST

To ensure that you have gathered all the information requested by the Department in this *Spill/Release Report, please complete the following checklist:*

✓ Map(s) of the site showing buildings, roads, surface water bodies, ditches, waterways, point of the release, extent of contamination, areas of excavation and sample collection locations attached.

✓ Material Safety Data Sheet (MSDS) for released material(s) attached.

Sampling data/analytical results attached.

Receipts/manifests (if any) for disposal of cleanup materials attached.

✓ Contractor reports (if any) attached. SEE ATTACHED EMAIL

Ketcham, Gene (GPKE)

To: O'Regan, Gerald (GRGN)
Cc: 'png@triax.com'
Subject: RE: Techron Release, Willbridge Terminal, Portland, OR

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Thank you.
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Depth to water - Monitoing well CR-7 is located approximately 50 feet from the truck rack. Depth to water in CR-7 has ranged from nine to twelve feet below ground surface. During drilling and installation of geoprobe wells directly down dragient of the truck rack last friday, the depth to water was approximately 14 feet. This water level may rise during development, due to the silts encountered. The groundwater gradient is fairly steep in the truck rack area and flows toward Doane Ave. and the Willamette River. Well CR-7 has historically contained separate phase product from previous releases and site activities. The SPH is usually less than 0.1 feet.

Soils: The subsurface in the terminal area is comprised of imported dredge spoils overlying Willamette River overbank silts and sand. Prior to development in the early 1900's, the area was a swamp/wetland. The area was drained by a slough that was developed as a storm sewer under Doane Ave. which is adjacent to the truck racks and the release.
Investigation: On Friday 10/6/00, PNG installed six geoprobe wells in the sidewalk area adjacent to the truck rack. Utilities limited the location of the wells. An 8-inch high pressure gas line is located near the sidewalk. Drilling within the truck rack would require shutting down the truck rack, which is already limited by the installation of the new overhead Techron lines. The locations were hand augered to a depth of four feet. The geoprobes were drilled to a total depth of 20 feet. Wells were screened from 5-20 feet with 3/4 inch ID prepack screens. A continuous core of the borings was collected. Samples were collected at one foot intervals from the surface to 16 feet. One additional sample was collected from the 16-20 foot interval.
The area has historicaly been impacted by petroleum product releases. The subsurface soils consisted of lenses of sand, fine silty sand and silt. The soil was black to dark gray to green and emitted petroleum product odors. The impacted soil appeared to be from older releases and not recent releases. Volatile readings (PID) were highest at the groundwater interface and in the silts.
A petroleum sheen was noted in the water in the cores.
Soil samples are being sent to Liz Harvey and North Creek for analysis

for the C-9 Aromatics.
The techron release appeared to be retarded by the shallow soil under the rack. We expected to encounter Techron in the shallow soil, but did not encounter any evidence of the release.
Water: Sampled Monday 10/9/00 No SPH was measured in any of the wells tody. Water samples are currently being collected. Samples will be sent to Liz Harvey and North Creek.

No analytical results. Verbal result from Liz Harvey that a sample from the petroleum seep at the 60 inch storm sewer outfall (appx 1000 feet from release) was primarily weathered diesel fuel with very little C-9 aromatics. This seep was not from the Techron release.

No cleanup activities to date.

If you have any questions, please e-mail or give me a call (503.620.2387)

Gerry

PNG ENVIRONMENTAL, INC.

April 3, 2001 956-01

Ms. Jill Kiernan
Oregon Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue, Suite 400
Portland, Oregon 97201-4987

Subject: **Ethanol Release**
Chevron Willbridge Terminal
5301 NW Doane Avenue
Portland, Oregon

Dear Ms. Kiernan:

This letter presents a summary of the activities conducted by Chevron Products Company (Chevron) and PNG Environmental, Inc. (PNG) during the investigation of an ethanol release at the Chevron Willbridge Light Products Terminal in Portland, Oregon. The investigation activities are part of a research project and have been conducted independent of the Remedial Investigation (RI) currently being conducted by Chevron at the terminal. This letter is intended to provide an overview of field activities conducted by PNG, to present conclusions concerning the impact of the ethanol release, and to transmit data. The letter is not intended to present a comprehensive review of the research projects conducted at the site.

ETHANOL RELEASE

On March 20, 1999, a 19,000-gallon release of neat ethanol occurred from Tank 58 (Figure 1). The release was caused by a subsurface piping failure at the tank base. No release to the surface occurred. DEQ was notified of the release. The tank was immediately emptied and taken out of service. Tank 58 was razed in 2000, with only the tank base remaining.

Initial Response

On March 22, 1999, PNG conducted a site inspection in the area of Tank 58. Tank 58 was empty and had been taken out of service. The surface soils in the vicinity of Tank 58 consist of pea gravel overlying dredge spoils, primarily sand and silt. Native alluvial silt deposits underlie the dredge spoils. No surface evidence of the release was noted. An alcohol/glycerin sheen (i.e., clear, transparent, light) was noted in the pea gravel at a depth of approximately six inches. An alcohol odor was also noted in the gravel.

Organic vapor measurements with a Thermo Environmental Instruments Model 580S OVM photo-ionization detector (PID) indicated vapor levels in soils at a depth of six inches ranging from 200 to 397 micrograms per liter (mg/L) at five locations along the north side of the tank. No organic vapor measurements (0 mg/L) were detected four locations south of the tank or at three locations at distances greater than 10 feet north of the tank.

7130 SW Elmhurst Street
Tigard, Oregon 97223

TEL (503) 620-2387
FAX (503) 620-2977

Ethanol concentrations have significantly declined in these two monitoring wells, further evidence of plume attenuation (see Tables 1, 2, 9, and 10). December 2000 ethanol concentrations increased in these two wells, compared to earlier trends, suggesting some residual ethanol remains in the vadose zone.

The presence of ethanol has affected pre-existing petroleum hydrocarbon in both the NAPL and the dissolved phases. NAPL thickness in Well CR-19, a near-source monitoring well, has exceeded two feet and has sustained during water table fluctuations. In the downgradient Well CR-7, benzene concentrations increased by a factor of 15 in a period of five months after the release. Throughout 2000, benzene concentrations remained about 10 times above the pre-release level, suggesting the potential evidence for co-solvent effects of ethanol.

The presence of ethanol has created a strongly anaerobic groundwater system, demonstrated by low or nondetectable dissolved oxygen, depleted sulfate and nitrate, and elevated methane concentrations ranging from 2,000 to 10,000 micrograms per liter (ug/L) (Table 10).

Declining ethanol concentrations in near-source monitoring wells and the lack of ethanol in downgradient monitoring wells provide evidence for ethanol biodegradation.

Future Activities

The scheduled future activities for the investigation of the ethanol release include: 1) continued groundwater sampling in 2001; 2) monthly removal of NAPL from Wells CR-15 and CR-19, and 3) disposal of shallow soil from excavations in the vicinity of Tank 58.

Quarterly groundwater monitoring events are scheduled through 2001. During the monitoring events, water and NAPL levels are gauged and groundwater samples are collected. The wells sampled and the analyses performed are shown in Table 11. These groundwater sampling events are conducted independent of the sampling events conducted for the RI.

Wells CR-15 and CR-19 have been added to the list of wells in the RI that are gauged for the presence of NAPL on a monthly schedule. NAPL will be removed from these wells when a measurable thickness is gauged.

Tank 60, which is adjacent to Tank 58, is being replaced. For the new tank, a ringwall foundation is constructed. The soil excavated for the ringwall will be disposed as petroleum contaminated soil (PCS) at TPS Technologies (TPS) in Portland, Oregon. The soil analytical results from the borings have been submitted to TPS as part of the permit process.

If you have any questions or need additional information, please contact PNG at (503) 620-2387 or Tim Buscheck of Chevron at (510) 242-5954.

Sincerely,

PNG ENVIRONMENTAL, INC.

Gerard Koschal, R.G.
Senior Geologist

Paul McBeth, R.G.
President

Attachments: Table 1 – Groundwater Oxygenate Data
Table 2 – BTEX Groundwater Analytical Results
Table 3 – TPH Soil Analytical Results
Table 4 – BTEX Soil Analytical Results
Table 5 – Soil Oxygenate Data
Table 6 – Monitoring Well Construction Data
Table 7 – Groundwater Elevation Data
Table 8 – Field Measured Groundwater Parameters
Table 9 – TPH Groundwater Analytical Results
Table 10 – Groundwater Secondary Constituents
Table 11 – In-Situ Bioremediation Sampling Protocol
Figure 1 – Facility Map Chevron Bulk Terminal

cc: Mr. Gerald O'Regan, Chevron Products Company
Mr. Tim Buscheck, Chevron Research and Technology Company
Mr. Jerry Holmes, Chevron Willbridge Terminal
Mr. Tim Warner, Delta Environmental, Inc.
Mr. Kelly Kline, KHM Environmental, Inc.

Spill Project Tosco Marine Diesel **TAS #** _____ **OERS #** 01-0181

NOTIFICATION: OERS Contact Coleen DEQ Contact MJG Time/Date Reported 11:00 1-24-01

Reporting Party RP Phone _____

SOURCE: ☐ Aircraft ☐ AST ☐ Bulk Petroleum Storage ☐ Business ☐ Construction Site ☐ Container ☐ Dam ☐ Drug Lab ☐ Drum ☐ Electrical Equipment ☐ Farm ☐ Heating Oil AST ☐ Heating Oil UST ☐ Heavy Equipment ☐ Industrial Plant ☐ Landfill ☐ Mine ☐ Pipeline ☐ Railway ☐ Sewer ☐ UST ☐ Well ☐ Unknown ☐ Other [Motor Vehicle] ☐ - Private ☐ - Commercial ☐ - Tank Truck [Vessel] ☐ - Cargo ☐ - Tanker ☐ - Fishing ☐ - Public ☐ - Recreational ☐ - Barge ☐ - Tug

CAUSE: ☐ Abandonment/Dumping ☐ Collision ☐ Derailment ☐ Equipment Failure ☐ Fire ☐ Human Error ☐ Sewer Bypass ☐ Vandalism ☐ Unknown ☐ Other [Vessel] ☐ - Grounding ☐ - Sinking

ACTIVITY: ☐ - Bilge Pumping ☐ - Bunkering ☐ - Construction ☐ - Lightering ☐ - Maintenance ☐ - Mining ☐ - Unknown ☐ - Other [Material Handling] ☐ - Application ☐ - Storage ☐ - Transfer ☐ - Transport ☐ - Refueling

WEATHER: ☐ - Cold ☐ - Fog ☐ - Hot ☐ - Rain ☐ - Snow/Ice ☐ - Other

SUBSTANCE(S) RELEASED: ☐ Animal Waste ☐ Chemical Product ☐ Drug Lab Waste ☐ Food Waste ☐ Hazardous Waste ☐ Other ☐ Herbicide ☐ Insecticide ☐ Medical Waste ☐ PCBs ☐ Radioactive ☐ Sewage ☐ Solid Waste ☐ Wastewater (non-sewage) ☐ Unknown [Oil] ☐ -Diesel ☐ - Fuel ☐ - Gasoline ☐ - Hearing ☐ - Hydraulic ☐ - Lube ☐ - Transformer ☐ - Waste Oil ☐ - Oil (Unknown)

Release Start Time/Date 12-21-00 Release Stopped Time/Date (if different) _____

Additional information on incident: from **Quantity** 55 ☒ - Gallons ☐ - Pounds ☐ - Other

leaking marine diesel aboveground tank - 11,300 bunell tank estimated 55-gal lost on 12-21-00 noted from pinhole - fingerprint analysis just came back - rust spots/pinhole noted on tank floor following hydrotest cleaning on 12-21-00, not sure if it had caused leak or if it was historical release

MEDIA AFFECTED: ☐ Air ☐ Groundwater ☐ Surface Water ☐ Soil ☐ Sediment ☐ Pavement

Nearest Stream or River/Name/Description/etc. _____

SPILL SITE: Tosco Refining Contact [illegible] Phone 503-[illegible]

Address 5529 NW Doane Ave. City Portland Zip 97210 County Multnomah

Where on site? _____ Lat./Long. _____

Directions if no address _____

RESPONSIBLE PARTY: _____ Contact _____ Phone _____

Address _____ City/State _____ Zip _____

Mailing Address _____ City/State _____ Zip _____

RP Notified? - ☐ Yes ☐ No Assumed Responsibility? - ☐ Yes ☐ No Contractor Hired? - ☐ Yes ☐ No

CLEANUP CONTRACTOR: _____ Field Rep _____ Phone _____

Address _____ City/State _____ Zip _____

ON-SITE CONTACT: _____ Affiliation _____ Phone _____

_____ Affiliation _____ Phone _____

FUNDING: ☐ Air Quality ☐ Water Quality ☐ Solid Waste ☐ Hazardous Waste ☒ Hazardous Spill ☐ Highway ☐ OPA

REPORT REQUIRED? - ☒ Yes ☐ No Date Required 2-13-01 Date Received _____ ☐ Initial Letter Sent?

☐ Min. ☒ Typ. ☐ Sig. ☐ TAS Initiated? ☐ SPIN Updated? ☐ Close TAS **DEQ Contractor Project #** _____

Revised: 1/3/2000

SPILL/RELEASE REPORT

1 - GENERAL INFORMATION OERS No. 01-0181

a. Company/Individual Name: Tosco Refining Co.

b. Address: 5525 NW Doane Ave
Portland, OR

c. Company Contact Person: John Sherman

d. Phone Number(s): (503) 248-1538

e. Specific on-site location of the release (and address if different from above):
Same

Please provide a map of the site showing area(s) where the release occurred, any sample collection locations, location of roads/ditches/surface water bodies, etc.

2 - RELEASE INFORMATION

a. Date/Time Release started: Unknown Date/Time stopped: 12/19/00 - 1700 hrs

b. Release was reported to (specify Date/Time/Name of Person contacted where applicable):
ODEQ 1/24/01 - 1130 hrs - Mike Greenburg
OERS 1/24/01 - 1030 hrs - Colleen
NRC
Other (describe):

c. Person(s) reporting release: Marty Cramer

d. Name, quantity and physical state (gas, liquid, solid or semi-solid) of material(s) released:
Marine Diesel oil, Liquid, 55-Gals.

Please attach copies of material safety data sheets (MSDS) for released material(s).

e. The release affected: ___Air ?_Groundwater ___Surface Water _X_Soil ___Sediment

f. Name and distance to nearest surface water body(s), even if unaffected (include locations of creeks, streams, rivers and ditches that discharge to surface water on maps):
Willamette River - Approx. 1500 ft N.E. of Spill Location
Has the release reached the surface water identified above?: ___Yes _X_No
Could the release potentially reach the surface water identified above? ___Yes _X_No
Explain: See Attached Narrative

g. Depth to nearest aquifer/groundwater: 12 ft to 14 ft
Is nearest aquifer/groundwater potable (drinkable)? ___Yes _X_No
Has the release reached the nearest aquifer/groundwater? ___Yes _?_No
Explain: See Attached Narrative

h. Release or potential release to the air occurred? ___Yes _X_ No
Explain: RELEASE TO SUBSURFACE SOIL ONLY

i. Was there a threat to public safety? ___Yes _X_No
j. Is there potential for future releases? ___Yes _X_ No
Explain: HOLE IN BOTTOM OF TANK REPAIRED AND TWO COATS OF EPOXY LINING MATERIAL WERE APPLIED TO UPPER SURFACE OF TANK BOTTOM
k. Describe other effects/impacts from release (emergency evacuation, fish kills, etc.):
NONE

l. Describe how the release occurred. Include details such as the release source, cause, contributing weather factors, activities occurring prior to or during the release, dates and times of various activities, first responders involved in containment activities, etc.:
SEE ATTACHED NARRATIVE

3 - SITE INFORMATION
a. Adjacent land uses include (check all that apply and depict on site maps):
___Residential _X_Commercial ___Light Industrial _X_Heavy Industrial
___Agricultural ___Other (describe):
b. What is the population density surrounding the site: MINIMAL - PRIMARILY INDUSTRIAL
c. Is the site and/or release area secured by fencing or other means? _X_ Yes ___No
d. Soil types (check all that apply): ___alluvial ___bedrock ___clay _X_sandy
_X_ silt ___ silty loam ___artificial surface (cement/asphalt/etc.)
e. Describe site topography: RELATIVELY FLAT WITH LOCALIZED GRADIENTS TOWARDS STORM WATER CATCH BASINS AND PIPING TRENCHES

4 - CLEANUP INFORMATION

a. Was site cleanup performed? ___ Yes _X_ No

If No, explain: SEE ATTACHED NARRATIVE

b. Who performed the site cleanup?

Company Name: N/A

Address: _____

_____

Cleanup Supervisor: _____

Phone Number(s): _____

c. Has all contamination been removed from the site? ___ Yes _X_ No

If No, explain: SEE ATTACHED NARRATIVE

d. Estimated volume of contaminated soil removed: None

e. Estimated volume of contaminated soil left in place: 10 yds^3

f. Was a hazardous waste determination made for cleanup materials? ___ Yes _X_ No

g. Based on the determination, are the cleanup materials hazardous wastes?

___ Yes _X_ No If Yes, list all waste codes: N/A

h. Was contaminated soil or water disposed of at an off-site location? ___ Yes _X_ No

If yes, attach copies of receipts/manifests/etc., and provide the following information:

Facility Name: _____

Address: _____

_____

Facility Contact: _____

Phone Number(s): _____

i. Is contaminated soil or water being stored and/or treated on-site? ___ Yes _X_ No

If yes, please describe the material(s), storage and/or treatment area, and methods utilized (attach additional sheets if necessary):

_____

_____

_____

_____

j. Describe cleanup activities including what actions were taken, dates and times actions were initiated and completed, volumes of contaminated materials that were removed, etc. (attach additional sheets or contractor reports if necessary or more convenient):

N/A

_____

_____

_____

_____

5 - SAMPLING INFORMATION

Attach copies of all sample data and indicate locations of sample collection on maps.

a. Were samples of contaminated soil collected? X Yes ___ No ___ N/A
b. Were samples of contaminated water collected? ___ Yes ___ No X N/A
c. Were samples collected to show that all contamination had been removed?
___ Yes ___ No X N/A
d. Describe sampling activities, results and discuss rationale for sampling methods:

SEE ATTACHED NARRATIVE.

6 - SPILL REPORT CHECKLIST

To ensure that you have gathered all the information requested by the Department in this Spill/Release Report, please complete the following checklist:

X Map(s) of the site showing buildings, roads, surface water bodies, ditches, waterways, point of the release, extent of contamination, areas of excavation and sample collection locations attached.

X Material Safety Data Sheet (MSDS) for released material(s) attached.

X Sampling data/analytical results attached.

N/A Receipts/manifests (if any) for disposal of cleanup materials attached.

N/A Contractor reports (if any) attached.

Spill Project Tesco Marine Diesel **TAS #** _____ **OERS #** 01-0181

NOTIFICATION: OERS Contact Coleen DEQ Contact MJG Time/Date Reported 11:00 1-24-01

Reporting Party RP Phone _____

SOURCE: ☐ Aircraft ☐ AST ☐ Bulk Petroleum Storage ☐ Business ☐ Construction Site ☐ Container ☐ Dam ☐ Drug Lab ☐ Drum ☐ Electrical Equipment ☐ Farm ☐ Heating Oil AST ☐ Heating Oil UST ☐ Heavy Equipment ☐ Industrial Plant ☐ Landfill ☐ Mine ☐ Pipeline ☐ Railway ☐ Sewer ☐ UST ☐ Well ☐ Unknown ☐ Other [Motor Vehicle] ☐ - Private ☐ - Commercial ☐ - Tank Truck [Vessel] ☐ - Cargo ☐ - Tanker ☐ - Fishing ☐ - Public ☐ - Recreational ☐ - Barge ☐ - Tug

CAUSE: ☐ Abandonment/Dumping ☐ Collision ☐ Derailment ☐ Equipment Failure ☐ Fire ☐ Human Error ☐ Sewer Bypass ☐ Vandalism ☐ Unknown ☐ Other [Vessel] ☐ - Grounding ☐ - Sinking

ACTIVITY: ☐ - Bilge Pumping ☐ - Bunkering ☐ - Construction ☐ - Lightering ☐ - Maintenance ☐ - Mining ☐ - Unknown ☐ - Other [Material Handling] ☐ - Application ☐ - Storage ☐ - Transfer ☐ - Transport ☐ - Refueling

WEATHER: ☐ - Cold ☐ - Fog ☐ - Hot ☐ - Rain ☐ - Snow/Ice ☐ - Other

SUBSTANCE(S) RELEASED: ☐ Animal Waste ☐ Chemical Product ☐ Drug Lab Waste ☐ Food Waste ☐ Hazardous Waste ☐ Other ☐ Herbicide ☐ Insecticide ☐ Medical Waste ☐ PCBs ☐ Radioactive ☐ Sewage ☐ Solid Waste ☐ Wastewater (non-sewage) ☐ Unknown [Oil] ☐ -Diesel ☐ - Fuel ☐ - Gasoline ☐ - Heating ☐ - Hydraulic ☐ - Lube ☐ - Transformer ☐ - Waste Oil ☐ - Oil (Unknown)

Release Start Time/Date 12-21-00 Release Stopped Time/Date (if different) _____

Additional information on incident: **Quantity** 55 ☒ - Gallons ☐ - Pounds ☐ - Other

Leaking marine diesel from aboveground tank - 11,300 bunell tank estimated 55-gal lost on 12-21-00 noted from pinhole - fingerprint analysis just came back - rust spots/pinhole noted on tank floor following hydroblast cleaning on 12-21-00, not sure if it has caused leak or if was historical release

MEDIA AFFECTED: ☐ Air ☐ Groundwater ☐ Surface Water ☐ Soil ☐ Sediment ☐ Pavement

Nearest Stream or River/Name/Description/etc. _____

SPILL SITE: Tesco Refining Contact Mark Cooper Phone 503-246-1571

Address 5529 NW Doane Ave. City Portland Zip 97210 County Multnomah

Where on site? _____ Lat./Long. _____

Directions if no address _____

RESPONSIBLE PARTY: _____ Contact _____ Phone _____

Address _____ City/State _____ Zip _____

Mailing Address _____ City/State _____ Zip _____

RP Notified? - ☐ Yes ☐ No Assumed Responsibility? - ☐ Yes ☐ No Contractor Hired? - ☐ Yes ☐ No

CLEANUP CONTRACTOR: _____ Field Rep _____ Phone _____

Address _____ City/State _____ Zip _____

ON-SITE CONTACT: _____ Affiliation _____ Phone _____

_____ Affiliation _____ Phone _____

FUNDING: ☐ Air Quality ☐ Water Quality ☐ Solid Waste ☐ Hazardous Waste ☒ Hazardous Spill ☐ Highway ☐ OPA

REPORT REQUIRED? - ☒ Yes ☐ No Date Required 2-13-01 Date Received _____ ☐ Initial Letter Sent?

☐ Min. ☒ Typ. ☐ Sig. ☐ TAS Initiated? ☐ SPIN Updated? ☐ Close TAS **DEQ Contractor Project #** _____

Revised: 1/3/2000

OERS # 01-____

AGENCIES NOTIFIED: _____

SITE VISIT DATE/TIME: _____

DEQ PROGRAM REFERRALS ☐ Air ☒ ECD ☐ Enforcement ☐ Hazardous Waste ☐ Solid Waste ☐ Tanks ☐ Water

Date/Reason 3/13/01 - Jill Kiernan Project Manager NON # _____

Was there a threat to public safety? ☐ Yes ☐ No Explain ?

Was Public Affairs notified? ☐ Yes ☒ No Name/Time/Date _____

Potential for Future Releases? ☒ Yes ☐ No Explain Rust Issues In Tanks

Disposal of Cleanup Materials _____

EVALUATION OF THE RELEASE

☒ Release **MAY POSE** a significant threat; **further review** or investigation is recommended (see Referrals above).

☐ Release **POSES NO** significant threat; **no further action** required because:

- ☐ Release by its nature rapidly dissipates (air emissions, sewage spills).
- ☐ Release has been cleaned up to a protective level.
- ☐ Release otherwise requires no additional investigation, removal, remedial action, or long-term environmental or institutional controls.

Evaluator's Signature _____ Date 3/13/01

Notes - Additional information pertaining to the spill incident, site characteristics, cleanup actions, and rationale for whether or not further cleanup is needed. Attach all correspondence, field notes, reports, site sketches, etc.

Jill Kiernan is cleanup PM for this site

Revised: 1/3/2000

Tosco Portland Terminal
Tank 2669 Release Report Narrative
OERS # 01-0181

2 – Release Information

f. Marine diesel oil (MDO) released from a small hole in the bottom of Tank 2669 could not reach the Willamette River as it appears to be entirely adsorbed by the underlying soil.

g. It is unlikely the release has reached the groundwater directly as a soil boring installed beneath the tank found the lower extent of vertical penetration to be approximately 10 ft. which is approximately 2 to 4 ft above the water table.

l. A small hole was discovered in the bottom of Tank 2669 during a routine API 653 internal inspection of the tank. The tank was first emptied of its contents of Marine Diesel Oil (MDO) and the typical accumulation of tank bottoms removed. This was followed by pressure washing of the tank floor and sides to allow for a complete inspection. The inspection revealed a few rust areas near the center of the tank floor that were scraped with a knife to determine roughly how deep the rust or corrosion penetrated into the floor. During this scraping process, a small hole about the size of a pencil tip was discovered. Because it was unclear if there was really a hole in the tank floor or the pressure washing and/or scraping created the hole, it was not reported as a release at that time.

A larger hole was cut in the floor on 12/21 to allow grab samples of soil to be collected down to 1 ft. below the hole and submitted to NCA for NWTPH-Dx and fingerprinting analyses. Although there was an odor to the samples, the tank was constructed in 1931 and we were concerned it could have been pre-existing contamination from historical operations. Additionally, a common tank construction practice during that time was to impregnate the soil beneath a tank with bunker oil to minimize corrosion. The analytical results received on 12/29 (see attached lab report dated 12/29/2000) indicated the soil samples were impacted with MDO but the penetration depth and quantity of the release were still unknown.

On January 2, 2001 a hand auger was used to collect deeper soil samples at the leak location (Hole A) and assess the depth of penetration. Two additional holes were cut in the tank floor 5 ft (Hole B) and 10 ft (Hole C) away to facilitate hand augering in those locations and assess the lateral spread of the release. Samples were collected to a depth of 10.5 ft in Hole A but only approximately 3 ft in Holes B and C as the soil was very dry and the hole repeatedly caved in and soil continually fell out of the sampler prior to it reaching the surface. The samples were again submitted to NCA and the preliminary TPH results were received on 1/5 but the fingerprinting results were not received by Tosco until 1/23 (see attached lab report dated 1/20).

Based on the analytical results, the release penetrated to a maximum depth of 10 ft with soil concentrations decreasing rapidly below about 6 ft. Calculations were then made (see attached explanation) to estimate the quantity released followed by a call to OERS to report the release. Data from Holes B and C suggest there

was historical contamination present, possibly from bunker fuel used to treat the underlying soil for corrosion control during tank construction.

The cause of the release was corrosion of the top of tank floor that the inspectors thought could have been due to salt water accumulation in that area of the tank floor. Small quantities of salt water can be introduced into products during transport by marine vessels from the refinery to our terminal.

4 – Cleanp Information

a. Cleanup was not performed due to the release being located beneath the tank and removal of the impacted soils would compromise the integrity of the tank even if the removed material was replaced. Additionally, the facility is under a DEQ consent order to assess and remediate historical contamination at the site. This release will be addressed directly or indirectly by that project.

c. See above response

5 – Sampling Information

d. See discussion under 2-l. above

Calculations for Tank 2669 Leak

Based on the hand auger sample analytical results and the soil type being silty sand (fairly permeable), it is assumed the MDO penetrated primarily vertically with moderate lateral spread (1:1 ratio) forming a cone shaped impact zone. Analytical results suggest vertical penetration terminated at about 10 ft bgs as the 9.5 ft sample contained 33 mg/kg and the 10.5 ft sample was ND. Because the upper foot of soil was sampled more intensively than the lower 9 feet and contained considerably higher concentrations, the analytical results from the upper three samples were averaged together to obtain a single data point which was then averaged with the results of the other four samples to obtain an overall average MDO soil concentration. The heavy oil range concentrations found in samples at 0, 0.4, and 5.5 ft were ignored as they were assumed to be the result of pre-existing contamination or overlap with diesel range results.

Based on the above, a spill volume was calculated as follows:

- Assume maximum depth of 10 ft
- Assume lateral spread of 1:1
- Assume average MDO concentration of 11,704 mg/kg
- Assume density of silty sand is 2.65 g/cc or 125 lbs/ft^3
- Assume cone shaped impact area
- Assume MDO specific gravity of 0.85 thus a density of 7.09 lbs/gal

Impact Area;

$\pi \times 5\ ft^2 \times 10 \times 1/3 = 262ft^2$

Volume of MDO contained in impact area;

$262ft^2/1 \times 125\ lbs/ft^2 \times 1\ kg/2.2\ lbs \times 11{,}704\ mg/kg \times 1\ lb/453{,}592\ mg = 384\ lbs$
$384\ lbs/1 \times 1\ gal/7.09\ lbs = 54.2\ gals$

Therefore, the approximate volume of MDO that likely leaked from Tank 2669 is 55 gallons.

Spill Project _____ **TAS #** _____ **OERS #** 00- 2185

NOTIFICATION: OERS Contact TAMI DEQ Contact WILSON Time/Date Reported 1250 9/12/00

Reporting Party MARTY CRAMER Phone 248-1517

SOURCE: ☐ Aircraft ☒ AST ☐ Bulk Petroleum Storage ☐ Business ☐ Construction Site ☐ Container ☐ Dam ☐ Drug Lab ☐ Drum ☐ Electrical Equipment ☐ Farm ☐ Heating Oil AST ☐ Heating Oil UST ☐ Heavy Equipment ☐ Industrial Plant ☐ Landfill ☐ Mine ☐ Pipeline ☐ Railway ☐ Sewer ☐ UST ☐ Well ☐ Unknown ☐ Other [Motor Vehicle] ☐ - Private ☐ - Commercial ☐ - Tank Truck [Vessel] ☐ - Cargo ☐ - Tanker ☐ - Fishing ☐ - Public ☐ - Recreational ☐ - Barge ☐ - Tug

CAUSE: ☐ Abandonment/Dumping ☐ Collision ☐ Derailment ☐ Equipment Failure ☐ Fire ☐ Human Error ☐ Sewer Bypass ☐ Vandalism ☒ Unknown ☐ Other [Vessel] ☐ - Grounding ☐ - Sinking

ACTIVITY: ☐ - Bilge Pumping ☐ - Bunkering ☐ - Construction ☐ - Lightering ☐ - Maintenance ☐ - Mining ☐ - Unknown ☐ - Other [Material Handling] ☐ - Application ☒ - Storage ☐ - Transfer ☐ - Transport ☐ - Refueling

WEATHER: ☐ - Cold ☐ - Fog ☐ - Hot ☐ - Rain ☐ - Snow/Ice ☐ - Other

SUBSTANCE(S) RELEASED: ☐ Animal Waste ☐ Chemical Product ☐ Drug Lab Waste ☐ Food Waste ☐ Hazardous Waste ☐ Other ☐ Herbicide ☐ Insecticide ☐ Medical Waste ☐ PCBs ☐ Radioactive ☐ Sewage ☐ Solid Waste ☐ Wastewater (non-sewage) ☐ Unknown [Oil] -Diesel ☐ - Fuel ☐ - Gasoline ☐ - Heating ☐ - Hydraulic ☐ - Lube ☐ - Transformer ☐ - Waste Oil ☒ - Oil (Unknown)

Release Start Time/Date ONGOING Release Stopped Time/Date (if different) _____

Additional information on incident: Quantity 1/8 ☒ - Gallons ☐ - Pounds ☐ - Other Per hour

RELEASE FROM TANK FARM CONTAMINATED SOILS INTO THE ~~DITCH~~ STORM SEWER.

MEDIA AFFECTED: ☐ Air ☐ Groundwater ☒ Surface Water ☐ Soil ☐ Sediment ☐ Pavement

Nearest Stream or River/Name/Description/etc. WILLAMETTE

SPILL SITE: TOSCO Contact CRAMER Phone CELL 849.4440

Address 5528 NW DOANE City PORTLAND Zip _____ County MULT.

Where on site? _____ Lat./Long. _____

Directions if no address _____

RESPONSIBLE PARTY: TOSCO Contact _____ Phone _____

Address _____ City/State _____ Zip _____

Mailing Address _____ City/State _____ Zip _____

RP Notified? - ☒ Yes ☐ No Assumed Responsibility? - ☒ Yes ☐ No Contractor Hired? - ☒ Yes ☐ No

CLEANUP CONTRACTOR: CCS (LOWLITZ CLEAN SWEEP) Field Rep JIMMY LAYTON Phone _____

Address _____ City/State _____ Zip _____

ON-SITE CONTACT: CRAMER Affiliation TOSCO Phone _____

_____ Affiliation _____ Phone _____

FUNDING: ☐ Air Quality ☐ Water Quality ☐ Solid Waste ☐ Hazardous Waste ☐ Hazardous Spill ☐ Highway ☐ OPA

REPORT REQUIRED? - ☐ Yes ☐ No Date Required _____ Date Received _____ ☐ Initial Letter Sent?

☐ Min. ☐ Typ. ☐ Sig. ☐ TAS Initiated? ☐ SPIN Updated? ☐ Close TAS **DEQ Contractor Project #** _____

Revised: 1/3/2000

M

Spill Project Tosco Outfall Sheen **TAS #** _____ **OERS #** 00-1724

NOTIFICATION: OERS Contact Tami DEQ Contact MJG Time/Date Reported 11:00 7-25-00

Reporting Party John Holtrop | BEJ Phone 823-7885

SOURCE: ☐ Aircraft ☐ AST ☒ Bulk Petroleum Storage ☐ Business ☐ Construction Site ☐ Container ☐ Dam ☐ Drug Lab ☐ Drum ☐ Electrical Equipment ☐ Farm ☐ Heating Oil AST ☐ Heating Oil UST ☐ Heavy Equipment ☐ Industrial Plant ☐ Landfill ☐ Mine ☐ Pipeline ☐ Railway ☐ Sewer ☐ UST ☐ Well ☐ Unknown ☐ Other [Motor Vehicle] ☐ - Private ☐ - Commercial ☐ - Tank Truck [Vessel] ☐ - Cargo ☐ - Tanker ☐ - Fishing ☐ - Public ☐ - Recreational ☐ - Barge ☐ - Tug

CAUSE: ☐ Abandonment/Dumping ☐ Collision ☐ Derailment ☐ Equipment Failure ☐ Fire ☐ Human Error ☐ Sewer Bypass ☐ Vandalism ☐ Unknown ☒ Other [Vessel] ☐ - Grounding ☐ - Sinking

ACTIVITY: ☐ - Bilge Pumping ☐ - Bunkering ☐ - Construction ☐ - Lightering ☐ - Maintenance ☐ - Mining ☐ - Unknown ☐ - Other [Material Handling] ☐ - Application ☐ - Storage ☐ - Transfer ☐ - Transport ☐ - Refueling

WEATHER: ☐ - Cold ☐ - Fog ☐ - Hot ☐ - Rain ☐ - Snow/Ice ☐ - Other

SUBSTANCE(S) RELEASED: ☐ Animal Waste ☐ Chemical Product ☐ Drug Lab Waste ☐ Food Waste ☐ Hazardous Waste ☐ Other ☐ Herbicide ☐ Insecticide ☐ Medical Waste ☐ PCBs ☐ Radioactive ☐ Sewage ☐ Solid Waste ☐ Wastewater (non-sewage) ☐ Unknown [Oil] ☐ -Diesel ☐ - Fuel ☐ - Gasoline ☐ - Heating ☐ - Hydraulic ☐ - Lube ☐ - Transformer ☐ - Waste Oil ☒ - Oil (Unknown)

Release Start Time/Date _____ Release Stopped Time/Date (if different) _____

Additional information on incident: Quantity 5+ over time ☒ - Gallons ☐ - Pounds ☐ - Other

ongoing sheen | historical sheen - boom permanently in place
7/27 - source to another leak discovered in storm sewer joints which allows Tosco groundwater & contaminated w/ petroleum to enter - they have scheduled pressure grouting of the joints - they are capturing and treating the storm drain water

MEDIA AFFECTED: ☐ Air ☐ Groundwater ☒ Surface Water ☐ Soil ☐ Sediment ☐ Pavement

Nearest Stream or River/Name/Description/etc. Willamette River

SPILL SITE: Tosco outfall #22 Contact _____ Phone _____

Address NW Front | Davis City Portland Zip _____ County Multnomah

Where on site? _____ Lat./Long. _____

Directions if no address _____

RESPONSIBLE PARTY: Tosco Contact Marty Kramer Phone 248-1517

Address _____ City/State _____ Zip _____

Mailing Address P.O. Box 76 City/State _____ Zip 97207

RP Notified? - ☐ Yes ☐ No Assumed Responsibility? - ☐ Yes ☐ No Contractor Hired? - ☐ Yes ☐ No

CLEANUP CONTRACTOR: _____ Field Rep _____ Phone _____

Address _____ City/State _____ Zip _____

ON-SITE CONTACT: _____ Affiliation _____ Phone _____

_____ Affiliation _____ Phone _____

FUNDING: ☐ Air Quality ☐ Water Quality ☐ Solid Waste ☐ Hazardous Waste ☒ Hazardous Spill ☐ Highway ☐ OPA

REPORT REQUIRED? - ☒ Yes ☐ No Date Required 8-17-00 Date Received _____ ☐ Initial Letter Sent?

☐ Min. ☒ Typ. ☐ Sig. ☐ TAS Initiated? ☐ SPIN Updated? ☐ Close TAS DEQ Contractor Project # _____

Revised: 1/3/2000

OERS # 00-724

AGENCIES NOTIFIED: _____

SITE VISIT DATE/TIME: _____

DEQ PROGRAM REFERRALS ☐ Air ☒ ECD ☐ Enforcement ☐ Hazardous Waste ☐ Solid Waste ☐ Tanks ☐ Water

Date/Reason Jill Kiernan NON # _____

Was there a threat to public safety? ☐ Yes ☐ No Explain Unknown

Was Public Affairs notified? ☐ Yes ☒ No Name/Time/Date _____

Potential for Future Releases? ☒ Yes ☐ No Explain Continued Petroleum Seepage into Storm Sewer

Disposal of Cleanup Materials _____

EVALUATION OF THE RELEASE

☒ Release MAY POSE a significant threat; further review or investigation is recommended (see Referrals above).

☐ Release POSES NO significant threat; no further action required because:

- ☐ Release by its nature rapidly dissipates (air emissions, sewage spills).
- ☐ Release has been cleaned up to a protective level.
- ☐ Release otherwise requires no additional investigation, removal, remedial action, or long-term environmental or institutional controls.

Evaluator's Signature _____ Date 12/7/00

Notes - Additional information pertaining to the spill incident, site characteristics, cleanup actions, and rationale for whether or not further cleanup is needed. Attach all correspondence, field notes, reports, site sketches, etc.

- Marty Kramer 248-1517 Tosco
- Jill Kiernan w DEQ cleanup PM

CAH 12/7/00 - Spoke w/ Marty Cramer @ 503-248-1517. States Jill Kiernan was DEQ Contact. Tosco under a Consent Order to Cleanup Site. Area Around Outfall #22 is 50% Tosco / 50% Chevron. Historical Seeping of Petroleum into City Storm Sewer. Note: Booms @ Outfall May Need To Be Replaced. In July 2000 Contractors Onsite To Grout Storm Sewer Pipe To Prevent Petroleum Seepage into Piping. Installed Temporary Wells To Recover Contaminated Water/Free Product w/ A Series Of Trenches (Piping w/ Gravel Gravity Fed To Wells). Pumped To Baker Tanks And Treated Onsite. Released To Pass Through NPDES Permit. Permanent Well Cutoff On Hold Due To Seasonal Constraints. Removal Of Sediments (Petrol. Contaminated) Delayed Due To Close Of Fish. Permit Delays. Site Visit Scheduled 12/18/00 @ 1000.

Revised: 1/3/2000

SPILL/RELEASE REPORT

1 - GENERAL INFORMATION OERS No. 00-1724

a. Company/Individual Name: Tosco Refining Company

b. Address: 5528 NW Doane Ave
Portland, OR 97210

c. Company Contact Person: Marty Cramer

d. Phone Number(s): (503) 248-15

e. Specific on-site location of the release (and address if different from above):
City of Portland Storm Sewer Outfall #22 adjacent to the Tosco dock

Please provide a map of the site showing area(s) where the release occurred, any sample collection locations, location of roads/ditches/surface water bodies, etc.

2 - RELEASE INFORMATION - See attached

a. Date/Time Release started: 7/24/00 - 1000 HRS Date/Time stopped: 8/7/00 - 1600 HRS

b. Release was reported to (specify Date/Time/Name of Person contacted where applicable):
ODEQ 7/24/00 - 1600 HRS / Mike Greenburg
OERS N/A
NRC N/A
Other (describe): USCG Portland MSO 7/24/00 - 1300 HRS

c. Person(s) reporting release: Marty Cramer

d. Name, quantity and physical state (gas, liquid, solid or semi-solid) of material(s) released:
Mixture of Diesel and Gasoline, unknown quantity (Sheen), Liquid State
Please attach copies of material safety data sheets (MSDS) for released material(s).

e. The release affected: ___ Air ___ Groundwater X Surface Water ___ Soil X Sediment

f. Name and distance to nearest surface water body(s), even if unaffected (include locations of creeks, streams, rivers and ditches that discharge to surface water on maps):
Willamette River - 0 ft
Has the release reached the surface water identified above?: X Yes ___ No
Could the release potentially reach the surface water identified above? ___ Yes ___ No
Explain: N/A

g. Depth to nearest aquifer/groundwater: N/A
Is nearest aquifer/groundwater potable (drinkable)? ___ Yes X No
Has the release reached the nearest aquifer/groundwater? X Yes ___ No
Explain: Product originated from historical spills that reached groundwater and entered storm sewer through leaking joint

h. Release or potential release to the air occurred? X Yes ___ No

Explain: THERE WAS A MYDROCARBON ODOR AT OUTFALL SUGGESTING A RELEASE TO AIR BUT MATERIAL IS PRIMARILY WATER THUS RELEASE WAS MINIMAL.

i. Was there a threat to public safety? ___ Yes X No

j. Is there potential for future releases? X Yes ___ No

Explain: SUBSURFACE PRODUCT EXISTS IN VICINITY OF STORM SEWER AND COULD ENTER PIPE IF A NEARBY JOINT FAILS AGAIN

k. Describe other effects/impacts from release (emergency evacuation, fish kills, etc.):

NONE NOTED

l. Describe how the release occurred. Include details such as the release source, cause, contributing weather factors, activities occurring prior to or during the release, dates and times of various activities, first responders involved in containment activities, etc.:

SEE ATTACHED

3 - SITE INFORMATION

a. Adjacent land uses include (check all that apply and depict on site maps):
___ Residential ___ Commercial X Light Industrial X Heavy Industrial
___ Agricultural ___ Other (describe):

b. What is the population density surrounding the site: MINIMAL - PRIMARILY INDUSTRIAL

c. *Is the site and/or release area secured by fencing or other means?* X Yes ___ No

d. Soil types (check all that apply): ___ alluvial ___ bedrock ___ clay X sandy
___ silt ___ silty loam ___ artificial surface (cement/asphalt/etc.)

e. Describe site topography: MODERATE SLOPE BACKSHORE AND LOW SLOPE SANDY SHORELINE

4 - CLEANUP INFORMATION

a. Was site cleanup performed? ____Yes __X__No

If No, explain: Tosco & Chevron are responsible for incident - Removal of contaminated beach sediments in vicinity of outfall will be conducted once all permits obtained

b. Who performed the site cleanup?

Company Name: _____

Address: _____

_____

Cleanup Supervisor: _____

Phone Number(s): _____

c. Has all contamination been removed from the site? ____Yes __X__No

If No, explain: See 4a above

_____

d. Estimated volume of contaminated soil removed: _____

e. Estimated volume of contaminated soil left in place: 50 yds^3

f. Was a hazardous waste determination made for cleanup materials? ____Yes __X__No

g. Based on the determination, are the cleanup materials hazardous wastes?

____Yes __X__No If Yes, list all waste codes: _____

h. Was contaminated soil or water disposed of at an off-site location? ____Yes __X__No

If yes, attach copies of receipts/manifests/etc., and provide the following information:

Facility Name: _____

Address: _____

_____

Facility Contact: _____

Phone Number(s): _____

i. Is contaminated soil or water being stored and/or treated on-site? ____Yes __X__No

If yes, please describe the material(s), storage and/or treatment area, and methods utilized (attach additional sheets if necessary):

_____

_____

_____

_____

j. Describe cleanup activities including what actions were taken, dates and times actions were initiated and completed, volumes of contaminated materials that were removed, etc. (attach additional sheets or contractor reports if necessary or more convenient):

See Attached

_____

_____

_____

_____

5 - SAMPLING INFORMATION

Attach copies of all sample data and indicate locations of sample collection on maps.

a. Were samples of contaminated soil collected? ____Yes __X__No ____N/A
b. Were samples of contaminated water collected? ____Yes __X__No ____N/A
c. Were samples collected to show that all contamination had been removed?
____Yes __X__No ____N/A
d. Describe sampling activities, results and discuss rationale for sampling methods:

SEE ATTACHED

6 - SPILL REPORT CHECKLIST

To ensure that you have gathered all the information requested by the Department in this Spill/Release Report, please complete the following checklist:

__X__ Map(s) of the site showing buildings, roads, surface water bodies, ditches, waterways, point of the release, extent of contamination, areas of excavation and sample collection locations attached.

__X__ Material Safety Data Sheet (MSDS) for released material(s) attached.

__N/A__ Sampling data/analytical results attached.

__N/A__ Receipts/manifests (if any) for disposal of cleanup materials attached.

__N/A__ Contractor reports (if any) attached.

SPILL/RELEASE REPORT – SUPPLEMENTAL INFORMATION
CITY OF PORTLAND STORM SEWER OUTFALL NO. 22 SHEENING EVENT

Background

Tosco/Unocal, Chevron, and GATX/Shell are currently involved in a RI/FS process to remediate the subsurface contamination in the area under a consent order issued by DEQ. Under the consent order Tosco/Unocal and Chevron are responsible for contamination in the vicinity of the storm sewer. There have been past sheening events similar to this one that were determined to come from leaking joints in the sewer pipe allowing groundwater and minor amounts of product to enter the pipe and reach the river. The leaking joints were subsequently grouted up from the inside and later pressure grouted around the outside to minimize the chances of subsequent leakage. This sheening event was associated with a new leaking joint and not the ones that were repaired previously.

2 – Release Information

2.a. Release Date/Time

A sheen was noted by Tosco operators within the boomed area around on the outfall approximately 1000 hrs on 7/24/00. Because the storm sewer outfall drains a large area with multiple potential sources, Tosco personnel spent several hours inspecting the sewer at several manholes in an attempt to determine the source. Although there was no way to definitively determine the source, by mid-afternoon on the 24th it appeared the sheen was coming from subsurface contamination in the proximity of the storm sewer near the river. Tosco then notified the Coast Guard and DEQ that there was a sheen entering the river that could be associated the historical spills at the facility.

Pro Pipe, Gelco and Cowlitz Clean Sweep (CCS) were then contacted to determine availability of personnel or video equipment to inspect the inside of the pipe to confirm if the sheen was originating from a leaking joint. CCS was the only one that could respond quickly and the source of the sheen was confirmed to be a leaking joint on the morning of 7/26/00. DEQ and the Coast Guard were subsequently updated on the situation and Gelco was retained to pressure grout the joint but could not respond until 8/8/00.

2.l. Release Description

The sheen occurred as the result of hydrocarbon product in the vicinity of the storm sewer entering the sewer pipe through a leaking joint and migrating to the Willamette River. The sewer is a 60-inch diameter reinforced concrete pipe with joints approximately every 8 feet. The leaking joint allowed groundwater to enter the pipe creating a depression on the water table and movement of groundwater towards the joint. Product floating on the water table in the vicinity is also drawn to the leaking joint and enters the pipe along with the groundwater.

Based on past studies in the area, the product consists of a highly weathered mixture of diesel fuel/stove oil, gasoline, and minor amounts of other products that resulted from historical leaks and spills from the Tosco/Unocal and Chevron facilities. The product entered the river as a sheen that was largely contained by the booms permanently

placed around the outfall. The booms are mandated by the consent order and have been in place since the mid- to late-1980s.

4 – Cleanup Information

4.j. Description of Cleanup Activities

After consultation with the Portland BES, a pumping system was installed at the outfall on 7/25/00 to recover water and sheen emanating from the outfall and transferring it to the Tosco Terminal's process water treatment system that discharges to the municipal sanitary sewer system. Sorbent pads, sweeps, and boom were placed within the boomed area to recover as much of the oil as possible and Cowlitz Clean Sweep was called to the site to recover the pads and redeploy additional sorbents. The pumping operation was discontinued on 7/28/00 due to fluctuating river levels periodically rising above the invert of the outfall and burying the pump intake in sand. Due to the warm, sunny weather, however, the sheen volatilized rapidly during the day.

On the morning of 8/8/00, Gelco arrived onsite to pressure grout the leaking joint and stop the infiltration of groundwater and product. The grouting operation was completed by mid-afternoon of that day and successfully repaired the leaking joint. Tosco/Unocal and Chevron are currently evaluating options for creating a permanent solution to the potential for future joints to begin leaking. No other joints were observed to be leaking during the inspection or repair of the sewer.

Tosco/Unocal and Chevron are also planning on removing the upper foot or two of beach sediments in the vicinity of the outfall that were impacted by the sheen event and will also be cleaning the oil stain from the interior of the pipe. KHM Environmental Management has been retained to facilitate the sediment removal and pipe cleaning and is currently in the process of obtaining permits for sediment removal. We are anticipating another 3 to 4 weeks before the permits are issued.

5 – Sampling Information

5.d. Description of Sampling Activities

No samples were taken during this sheen event although beach sediment samples were taken during a previous sheening event which indicated significant contamination was limited to the immediate vicinity of the outfall. The results of the sampling activities were summarized in a report dated February 20, 1999 submitted to Loren Garner of DEQ. No sediment removal was conducted following the sampling as it is likely that much of the contamination detected was related to historical sheening events and was incorporated into the RI/FS process for the Willbridge Facilities consent order. As mentioned above, sediment removal will occur this time once the permitting process is complete.

DEQ Spill/Release Form

Office Reference _____

NOTIFICATION INFORMATION OERS Number 96-2921 OERS Contact Betty

Report Status - Cancelled ___ Completed ___ Ongoing X Referred Home 873-3879

DEQ Person Receiving Report Loren Garner Date Reported 10/19/96 Time Reported 0750

Reporting Party Andrew Holbrook - GATX Phone 220-1243 Pager 204-7311

SOURCE Unknown ___ Multiple (also check all that apply) ___ AST ___ Bulk Petroleum Storage X Construction Site ___ Container ___
Drug Lab ___ Drum ___ Electrical Equipment ___ Farm ___ Industrial Plant ___ Heating Oil AST ___ Heating Oil UST ___ Landfill ___
Mine ___ Motor Vehicle - [Private] ___ [Commercial] ___ [Tank Truck] ___ Pipeline ___ Railway ___ Sewer Bypass ___ UST ___
Vessel - [Cargo] ___ [Tanker] ___ [Fishing] ___ [Public] ___ [Recreational] ___ [Barge] ___ Well ___ Other (describe below) ___

CAUSE Unknown ___ Multiple (also check all that apply) ___ Abandonment/Dumping ___ Collision ___ Derailment ___ Equipment Failure X
Fire ___ Human Error ___ Vandalism ___ Vessel - [Grounding] ___ [Sinking] ___ Other (describe below) ___

ACTIVITY Unknown ___ Bilge Pumping ___ Bunkering ___ Dam Construction/Maint ___ Lightering ___ Mining ___
Material Handling - [Application] ___ [Storage] ___ [Transfer] ___ [Transport] ___ Refueling ___ Other (describe below) ___

WEATHER Cold ___ Fog ___ Hot ___ Rain ___ Snow/Ice ___ Other (describe below) ___

Release Start Time/Date 10/19/96 0200 Release Stopped Time/Date (if different) _____

Describe (additional information on Source, Cause, Activity and Weather)

300-500 gallons Jet Fuel leaked from a tank within a ~~building~~ containment like a Being recovered along with ≈ 3000 gallons rain water. Cause was due to gasket failure at filter vessel

REPORT REQUIRED? Yes X No ___ Date Required 11/4/96 Date Received _____

NEAREST STREAM AND RIVER (Watershed Information) Willamette River

SPILL SITE GATX Terminal Contact Andrew Holbrook Phone 220-1243

Address 5880 NW St Helens Rd City Portland Zip _____ County Mult

Where on site? South tank farm.

Directions if no address _____

RESPONSIBLE PARTY GATX Contact Andrew Holbrook Phone 220-1243

Address _____ City/State _____ Zip _____

Mailing Address P.O. Box 83479 City/State Portland Zip 97283

RP Notified? Yes X No ___ Assumed Responsibility? Yes X No ___ Contractor Hired? Yes X No ___

CLEANUP CONTRACTOR Foss Env Field Rep _____ Phone _____

Address _____ City/State _____ Zip _____

ON-SITE CONTACT Andrew Holbrook Affiliation _____ Phone _____

Address _____ City/State _____ Zip _____

SUBSTANCE(S) RELEASED Unknown ___ Multiple (also check all that apply) ___ Animal Waste ___ Chemical Product ___
Drug Lab Waste ___ Food Waste ___ Hazardous Waste ___ Herbicide ___ Insecticide ___ Medical Waste ___ Oil - [Crude] ___ [Diesel] ___
Oil - [Fuel] ___ [Gasoline] ___ [Heating] ___ [Hydraulic] ___ [Lube] ___ [Transformer] ___ [Waste Oil] ___ Oil - [Unknown] ___ PCBs ___
Radioactive ___ Sewage ___ Solid Waste ___ Wastewater (non-sewage) ___ Other (describe below) X

DESCRIPTION - Name, Volume (actual/potential) and Physical State (gas/liquid/solid/semi-solid) for each substance:

500 gallons Jet Fuel (Kerosene range)

GATX

GATX TERMINALS CORPORATION
Northwest Operations

5880 N.W. ST. HELENS ROAD
P.O. BOX 83479
PORTLAND, OR 97210/97283
503-220-1240
FAX 503-220-1249

October 24, 1996

Mr. Loren G. Garner, P.E.
Oregon Department of Environmental Quality
2020 S.W. Fourth Avenue, Suite 400
Portland, OR 97201-4987

SUBJECT: RELEASE FOLLOW UP REPORT - GATX WILLBRIDGE TERMINAL

Dear Mr. Garner:

As a follow-up to our telephone notification to you on Saturday, October 19, 1996, GATX is providing this incident report per the provisions of OAR 340-108-040. The incident consists of a release of jet fuel (kerosene) from a filter vessel within the southern tank farm of the GATX Willbridge Terminal located at 5880 NW St. Helens Road, Portland. This system is located entirely within the 15 foot high concrete containment walls of the south tank farm and no product was released outside of the contained area. At no time did this release threaten to impact a public area or a water way.

The incident was discovered during a routine shift inspection of the facility just prior to midnight on Friday, October 18, 1996. At that time a facility operator discovered jet fuel escaping from a bottom plate on a jet fuel filter vessel. The pumping operation was terminated as soon as possible (within five minutes) by the operator. Terminal management was notified by telephone as soon as possible. The facilities contracted Oil Spill Response contractor, Foss Environmental, was contacted shortly after midnight with instructions to respond with personnel and equipment. Due to the isolated area, characteristics of the product and weather conditions, no fire hazard was present nor was there a threat to public safety.

Foss personnel and equipment started arriving on scene within one hour of notification. Containment and collection activities were initiated using sorbent spill pads and boom equipment and two vacuum trucks to recover product and impacted rainwater that was standing in the area at the time of the spill. The recovered fluids were pumped from the vacuum trucks to a fixed (and empty) storage tank within the southern tank farm. Water hoses were used to wash down the concrete pad and adjacent gravel surface and direct this material to the vacuum trucks. Initial visual quantity estimates, not counting the standing water from the area that was also recovered, suggested approximately 500 gallons was released. Later in the day of October 19 when all standing liquids had been recovered, the quantity of jet fuel in the recovery tank indicated 2,600 gallons of product had actually been recovered.

The cause of the release was a gasket failure on the bottom plate of the jet fuel filter vessel in question. This gasket has since been replaced with a new one, and the vessel pressure tested prior to returning the system to full service.

C:\OFFICE\WPWIN6\WPDOCS\AHWILBR\DGJETSPIL\DEQNOTE.LTR

Since this facility is currently under a State of Oregon Consent Order, groundwater monitoring of the entire site occurs on a quarterly basis. Future monitoring of wells in the area of the release will be conducted with additional scrutiny for any changes that would indicate a jet fuel impact. Should a detection occur, remediation efforts will be incorporated into the overall site plan. If you should have any questions regarding this correspondence, please contact the undersigned at (503) 220-1243.

Sincerely,
GATX Terminals Corporation

Andrew Holbrook
Manager, Environmental & Safety Affairs
Northwest Operations

cc: M.L. Ullmer
S.J. Kelman
D.A. Berg
Willbridge file

C:\OFFICE\WPWIN\WPDOCS\AH\WILBRIDG\JETSPILL\DEQNOTE.LTR

Before reporting to the scene

Your name LARRY M. SCHURR

1. Get information about person reporting spill.

Name ARCHIE MUSTARD

Affiliation OEMD

Phone

Date of report 2-1-83 Time 10:30 AM

EMD incident number

Other agencies contacted USCG

2. Get information about spill.

A. Name of on-scene respondent JERRY GOULD

Affiliation Rimbold Corp.

Phone 283-4446

B. Date of spill 2-1-83 Time 10:10 AM

C. Location of spill N. side Hayden Is. Portland County Multnomah

D. Property owner Rimbold Corp ?

E. Party responsible for spill Rimbold Corp

Has party accepted responsibility for spill? Y X N

(If responsible party unknown or hasn't accepted responsibility, contact EPA.)

NWK copy

~~DOC~~ ~~WAS~~ ~~FRB~~

F. Materials involved (description & volume)

Small slick - probably from ENGINE GREASE deposits, NOT TANK RUPTURE

(If unknown, check the manifest, shipping papers, shipper, intended receiver. Chemtrec can help translate brand name into chemical substance and probable manufacturer.)

G. Proximity to public waters, other threats

IN Columbia River

H. How spill occurred DROVE A FORKLIFT INTO Columbia RIVER

I. Containment steps being taken UNKNOWN

3. Have the following been notified?
Regional Operations Y X N
Hazardous Waste Operations Y N X
Public Affairs Y cc N
EPA Y cc N EMD Y X N

4. If field response is unnecessary, explain.

Dept. of Environmental Quality
RECEIVED
FEB 1 1983
NORTHWEST REGION

COPPOR0002552

Spill Project Outfall 22 Petroleum Release **TAS #** ~~2355~~ 1022 **OERS #** 98-0108

NOTIFICATION: OERS Contact Betty DEQ Contact Szerlog Time/Date Reported 955/3/27/98
Reporting Party USCG Chief Thomas Phone (503) 240-9370

SOURCE: Unknown Multiple (also circle all that apply) AST Bulk Petroleum Storage Construction Site Container
Drug Lab Drum Electrical Equipment Farm Industrial Plant Heating Oil AST Heating Oil UST Landfill
[Motor Vehicle] - Private - Commercial - Tank Truck Mine (Pipeline) Railway Sewer Bypass UST
[Vessel] - Cargo - Tanker - Fishing - Public - Recreational - Barge Well Other (describe below)

CAUSE: Unknown Multiple (also circle all that apply) Abandonment/Dumping Collision Derailment Equipment Failure
Fire Human Error Vandalism [Vessel] - Grounding - Sinking (Other (describe below))

ACTIVITY: Unknown Bilge Pumping Bunkering Dam Construction/Maintenance Lightering Mining
[Material Handling] - Application - Storage - Transfer - Transport - Refueling Other (describe below)

WEATHER: Cold Fog Hot Rain Snow/Ice Other (describe below)

SUBSTANCE(S) RELEASED: Unknown Multiple (also circle all that apply) Animal Waste Chemical Product
Drug Lab Waste Food Waste Hazardous Waste Herbicide Insecticide Medical Waste PCBs
[Oil] - Crude (Diesel) - Fuel (Gasoline) - Heating - Hydraulic - Lube - Transformer - Waste Oil - Oil (Unknown)
Radioactive Sewage Solid Waste Wastewater (non-sewage) Other (describe below)

Release Start Time/Date Ongoing Release Stopped Time/Date (if different)

Additional information on Source, Cause, Activity, Weather and Substance (actual/potential volume, physical state, etc.):
Sheen and 20 gallons of oil from storm drain to columbia River, Chevron is cleaning it up they are not RP, City of Portland's outfall (from outfall 22) Chevron, GATEX and TOSCO site, Related to Subsurface problem "Willbridge Bulk Fuel Area" - Jill Kiernan

MEDIA AFFECTED: Air Groundwater (Surface Water) Soil Sediment Pavement

Nearest Stream or River/Name/Description/etc.

SPILL SITE: Chevron Dock / TOSCO Contact John Fredig Phone (503) 222-7881
Address 5924 NW Front St City Portland Zip County
Where on site? 5922 NW Front St - TOSCO
Directions if no address

RESPONSIBLE PARTY: TOSCO / Group Contact Phone
Address City/State Zip
Mailing Address City/State Zip
RP Notified? (Yes) No Assumed Responsibility? - (Yes) No Contractor Hired? - (Yes) No

CLEANUP CONTRACTOR: CET / PEG Field Rep Phone
Address City/State Zip

ON-SITE CONTACT: ~~USCG~~ Chief Thomas Affiliation USCG - Chief Phone (503) 240-9370, 9379
Affiliation Phone

FUNDING: Air Quality Water Quality Solid Waste Haz Waste Haz Spill Highway OPA

☐ TAS Initiated? ☐ SPIN Entered? ☐ SPIN Updated? Initial Letter Sent? - Yes No

REPORT REQUIRED? - Yes No Date Required Date Received

DEQ Contractor Project # Date File Completed 7/29/98 By (initials) LLY ☒ Close TAS

Revised: 8/21/97

Spill Project Tosco Kerosene 00-1357 TAS # 14651 OERS # 00-1357

NOTIFICATION: OERS Contact Willis DEQ Contact MJG Time/Date Reported 14:20 6-15-00

Reporting Party Steve Nelson - Tosco Phone 248-1565

SOURCE: ☐ Aircraft ☐ AST ☒ Bulk Petroleum Storage ☐ Business ☐ Construction Site ☐ Container ☐ Dam ☐ Drug Lab ☐ Drum ☐ Electrical Equipment ☐ Farm ☐ Heating Oil AST ☐ Heating Oil UST ☐ Heavy Equipment ☐ Industrial Plant ☐ Landfill ☐ Mine ☐ Pipeline ☐ Railway ☐ Sewer ☐ UST ☐ Well ☐ Unknown ☐ Other [Motor Vehicle] ☐ - Private ☐ - Commercial ☐ - Tank Truck [Vessel] ☐ - Cargo ☐ - Tanker ☐ - Fishing ☐ - Public ☐ - Recreational ☐ - Barge ☐ - Tug

CAUSE: ☐ Abandonment/Dumping ☐ Collision ☐ Derailment ☒ Equipment Failure ☐ Fire ☐ Human Error ☐ Sewer Bypass ☐ Vandalism ☐ Unknown ☐ Other [Vessel] ☐ - Grounding ☐ - Sinking

ACTIVITY: ☐ - Bilge Pumping ☐ - Bunkering ☐ - Construction ☐ - Lightering ☐ - Maintenance ☐ - Mining ☐ - Unknown ☐ - Other [Material Handling] ☐ - Application ☐ - Storage ☒ - Transfer ☐ - Transport ☐ - Refueling

WEATHER: ☐ - Cold ☐ - Fog ☐ - Hot ☐ - Rain ☐ - Snow/Ice ☐ - Other

SUBSTANCE(S) RELEASED: ☐ Animal Waste ☐ Chemical Product ☐ Drug Lab Waste ☐ Food Waste ☐ Hazardous Waste ☐ Other ☐ Herbicide ☐ Insecticide ☐ Medical Waste ☐ PCBs ☐ Radioactive ☐ Sewage ☐ Solid Waste ☐ Wastewater (non-sewage) ☐ Unknown [Oil] ☒ -Diesel ☐ - Fuel ☐ - Gasoline ☐ - Heating ☐ - Hydraulic ☐ - Lube ☐ - Transformer ☐ - Waste Oil ☐ - Oil (Unknown)

Release Start Time/Date 6-15-00 1335 Release Stopped Time/Date (if different) _____

Additional information on incident: Quantity ~~200~~ 6538 ☒ - Gallons ☐ - Pounds ☐ - Other

200 gal inside tank farm - bleeder valve on pump vibrated loose
150 gal to separator - 50 gal to soil - during loading of
tanker truck - valve was on loading rack - spill was of a
kerosene purge/wipe following a diesel transfer to truck

Revised - 6538 gallons lost, 2688 recovered as liquid,
leaving 3850 in soil/evaporation.

MEDIA AFFECTED: ☐ Air ☐ Groundwater ☐ Surface Water ☒ Soil ☐ Sediment ☐ Pavement

Nearest Stream or River/Name/Description/etc. _____

SPILL SITE: TOSCO Tank Farm Contact Marty Cramer Phone 248-1517

Address 5528 NW Doane City Portland Zip _____ County Multnomah

Where on site? _____ Lat./Long. _____

Directions if no address _____

John Sherman 849-9605

RESPONSIBLE PARTY: Tosco Contact Steve Nelson Phone 248-1565

Address 5528 NW Doane City/State Portland Zip 97210

Mailing Address _____ City/State _____ Zip _____

RP Notified? - ☐ Yes ☐ No Assumed Responsibility? - ☐ Yes ☐ No Contractor Hired? - ☐ Yes ☐ No

CLEANUP CONTRACTOR: Curtis Cleanup Field Rep _____ Phone _____

Address _____ City/State _____ Zip _____

ON-SITE CONTACT: _____ Affiliation _____ Phone _____

_____ Affiliation _____ Phone _____

FUNDING: ☐ Air Quality ☐ Water Quality ☐ Solid Waste ☐ Hazardous Waste ☒ Hazardous Spill ☐ Highway ☐ OPA

REPORT REQUIRED? - ☒ Yes ☐ No Date Required 7-6-00 Date Received 7-12-00 ☐ Initial Letter Sent?

☐ Min. ☒ Typ. ☐ Sig. ☒ TAS Initiated? ☐ SPIN Updated? ☒ Close TAS DEQ Contractor Project # _____

Referred

OERS # 00-

AGENCIES NOTIFIED: _____

SITE VISIT DATE/TIME: _____

DEQ PROGRAM REFERRALS ☐ Air ☒ ECD ☐ Enforcement ☐ Hazardous Waste ☐ Solid Waste ☐ Tanks ☐ Water

Date/Reason Jill Kiernan - Ongoing Cleanup NON # _____

Was there a threat to public safety? ☐ Yes ☐ No Explain _____

Was Public Affairs notified? ☐ Yes ☐ No Name/Time/Date _____

Potential for Future Releases? ☐ Yes ☐ No Explain _____

Disposal of Cleanup Materials _____

EVALUATION OF THE RELEASE

☒ Release MAY POSE a significant threat; further review or investigation is recommended (see Referrals above).

☐ Release POSES NO significant threat; no further action required because:

- ☐ Release by its nature rapidly dissipates (air emissions, sewage spills).
- ☐ Release has been cleaned up to a protective level.
- ☐ Release otherwise requires no additional investigation, removal, remedial action, or long-term environmental or institutional controls.

Evaluator's Signature Loren Thom Date 7-12-00

Notes - Additional information pertaining to the spill incident, site characteristics, cleanup actions, and rationale for whether or not further cleanup is needed. Attach all correspondence, field notes, reports, site sketches, etc.

Will be rolled into existing project for DEQ oversight.

Revised: 1/3/2000

Thursday, June 15, 2000 2:10:49 PM
OR NRC Notifications

From: fldr-NRC@comdt.uscg.mil

Subject: NRC#532254

To: NRCOR

NATIONAL RESPONSE CENTER - PUBLIC FAX
GOVERNMENT USE ONLYGOVERNMENT USE ONLY***
DO NOT RELEASE this information to the public without
permission from the NATIONAL RESPONSE CENTER 1-800-424-8802

Incident Report # 532254

INCIDENT DESCRIPTION

*Report taken by: CIV CREW at 16:59 on 15-JUN-00
Incident Type: FIXED
Incident Cause: EQUIPMENT FAILURE Affected Area:
The incident occurred on 15-JUN-00 at 13:35 local time.
Affected Medium: LAND CONTAINMENT>CONCRETE>S

SUSPECTED RESPONSIBLE PARTY

Name: STEVE NELSON
Organization: TOSCO COMPANY
Address: 5528 NW DOANE
PORTLAND, OR 97210
PRIMARY Phone: (503)2481565
Type of Organization: PRIVATE ENTERPRISE

INCIDENT LOCATION

5528 NW DOANE County: MULTNOMAH
PORTLAND, OR 97210

RELEASED MATERIAL(S)

CHRIS Code: KRS Official Material Name: KEROSENE
Also Known As:
Qty Released: 200 GALLON(S)

DESCRIPTION OF INCIDENT

MATERIAL SPILLED FROM A BLEEDER VALVE DUE TO EQUIPMENT FAILURE

INCIDENT DETAILS

Building ID:
Type of Fixed Object: OTHER
Power Generating Facility: NO
Generating Capacity:
Type of Fuel:
NPDES:
NPDES Compliance: UNKNOWN

DAMAGES

Fire Involved: NO
INJURIES: Hospitalized: Empl/Crew: Passenger:

FATALITIES: Empl/Crew: Passenger: Occupant:
EVACUATIONS: Who Evacuated: Radius/Area:
Damages:

Closure Type	Description of Closure	Length of Closure	Direction of Closure
Air: N			
Road: N			
Major Artery: N			
Waterway: N			
Track: N			

REMEDIAL ACTIONS

MATERIAL CONTAINED,EXCAVATED SOIL,MATERIAL SPILLED INTO SECOND CONTAINMENT,CLEAN UP UNDERWAY,CONTRACTOR HAS BEEN HIRED;COWLITZ CLEAN SWEEP
Release Secured: YES
Release Rate:
Estimated Release Duration:

WEATHER

Weather: CLEAR, 75°F Wind speed: 5 MPH Wind direction: NW

ADDITIONAL AGENCIES NOTIFIED

State: Other:

NOTIFICATIONS BY NRC

ATSDR OR ATTN: RICK LEIKER
15-JUN-00 17:10 (503)7314025
ATSDR WA ATTN: LUCY HARTER
15-JUN-00 17:10 (360)2363364
U.S. EPA X SEATTLE
(206)5531263
NOAA 1ST CLASS BB RPTS FOR OR
15-JUN-00 17:10 (206)5266344
OREGON EMERGENCY MANAGEMENT
15-JUN-00 17:10 (800)4520311
WA STATE EMERGENCY MANAGEMENT
15-JUN-00 17:10 (800)2585990

ADDITIONAL INFORMATION

CALLER HAD NO ADDITIONAL INFORMATION

*** END INCIDENT REPORT 532254 ***
Report any problems or Fax number changes by calling 1-800-424-8802
PLEASE VISIT OUR WEB SITE AT http://www.nrc.uscg.mil

SPILL/RELEASE REPORT

1 - GENERAL INFORMATION OERS No. 00-1357

a. Company/Individual Name: TOSCO REFINING COMPANY

b. Address: 5528 N.W. DOANE AVE.
PORTLAND, OR 97210

c. Company Contact Person: JOHN SHERMAN

d. Phone Number(s): (503) 248-1538

e. Specific on-site location of the release (and address if different from above):
TANK FARM No. 2 ADJACENT TO TANK 2982
(SAME ADDRESS AS ABOVE)

Please provide a map of the site showing area(s) where the release occurred, any sample collection locations, location of roads/ditches/surface water bodies, etc.

2 - RELEASE INFORMATION

a. Date/Time Release started: 6-15-2000/UNKNOWN Date/Time stopped: 6-15-2000 @ 1305

b. Release was reported to (specify Date/Time/Name of Person contacted where applicable):

ODEQ 6-15 @ 1345 HOURS; CONTACTED TINA AND MARIA

OERS 6-15 @ 1405 HOURS; ELAINA; # 2000-1357

NRC 6-15 @ 1405 HOURS; THOMAS; # 532-254

Other (describe): USCG @ 1412 HOURS, CPO SMITH / MULTNOMAH COUNTY @ 1415 HOURS - MARIA/

c. Person(s) reporting release: STEVEN NELSON

d. Name, quantity and physical state (gas, liquid, solid or semi-solid) of material(s) released:
KEROSENE, 6,538 GAL, LIQUID

Please attach copies of material safety data sheets (MSDS) for released material(s).

e. The release affected: X Air ___ Groundwater ___ Surface Water X Soil ___ Sediment

f. Name and distance to nearest surface water body(s), even if unaffected (include locations of creeks, streams, rivers and ditches that discharge to surface water on maps):
WILLAMETTE RIVER - APPROX. 1,000 FT N.E. OF SPILL LOCATION
Has the release reached the surface water identified above?: ___ Yes X No
Could the release potentially reach the surface water identified above? ___ Yes X No
Explain: ONLY PATHWAY TO RIVER IS VIA STORM WATER COLLECTION/TREATMENT SYSTEM WHICH WAS CLOSED OFF AT TIME OF SPILL

g. Depth to nearest aquifer/groundwater: 13 FT.
Is nearest aquifer/groundwater potable (drinkable)? ___ Yes X No
Has the release reached the nearest aquifer/groundwater? ___ Yes ? No
Explain: HAVE NOT CONFIRMED SPILL DID NOT REACH GROUNDWATER BUT SOIL SAMPLE ANALYTICAL RESULTS INDICATE LOWER EXTENT OF PENETRATION IS APPROX. 12 FT.

h. Release or potential release to the air occurred? X Yes ___ No

Explain: RELEASE TO AIR LIMITED DUE TO RELATIVELY LOW VOLATILITY OF KEROSENE BUT SOME VOLATILIZATION MUST HAVE OCCURRED

i. Was there a threat to public safety? ___ Yes X No

j. Is there potential for future releases? ___ Yes X No

Explain: SAMPLING VALVE APPARENTLY VIBRATED OPEN AND CAP WAS INADVERTENTLY LEFT OFF SAMPLE PORT. ALL SAMPLE PORTS WERE CHECKED FOR CAPS AND VALVE IS

k. Describe other effects/impacts from release (emergency evacuation, fish kills, etc.): BEING TESTED TO DETERMINE IF PRONE TO VIBRATING-OPEN. IF SO, ALL VALVES OF THAT TYPE WILL BE REPLACED. LOCKS ARE ALSO BEING INSTALLED ON ALL SAMPLE VALVES.

None

l. Describe how the release occurred. Include details such as the release source, cause, contributing weather factors, activities occurring prior to or during the release, dates and times of various activities, first responders involved in containment activities, etc.:

SEE ATTACHED WRITE-UP

3 - SITE INFORMATION

a. Adjacent land uses include (check all that apply and depict on site maps):
___ Residential X Commercial ___ Light Industrial X Heavy Industrial
___ Agricultural ___ Other (describe): _____

b. What is the population density surrounding the site: MINIMAL - PRIMARILY INDUSTRIAL

c. Is the site and/or release area secured by fencing or other means? X Yes ___ No

d. Soil types (check all that apply): ___ alluvial ___ bedrock ___ clay X sandy
X silt ___ silty loam ___ artificial surface (cement/asphalt/etc.)

e. Describe site topography: RELATIVELY FLAT WITHIN TANK FARM WITH LOCALIZED GRADING TOWARDS STORM WATER CATCH BASINS AND PIPING TRENCHES.

4 - CLEANUP INFORMATION

a. Was site cleanup performed? X Yes ___ No

If No, explain: _____

b. Who performed the site cleanup?

Company Name: COWLITZ CLEAN SWEEP

Address: 9420 NW ST. HELENS
PORTLAND, OR 97231

Cleanup Supervisor: SCOTT GILFILLAN

Phone Number(s): (360) 957-2018

c. Has all contamination been removed from the site? ___ Yes X No

If No, explain: TOP 2 FT OF SOIL REMOVED FROM SPILL AREA AND STOCKPILED ONSITE. WILL LIKELY REMOVE ANOTHER 2 FT OR SO AND

d. Estimated volume of contaminated soil removed: 60 YDS^3 TRANSPORT TO TPS FOR TREATMENT / DISPOSAL

e. Estimated volume of contaminated soil left in place: 400 YDS^3

f. Was a hazardous waste determination made for cleanup materials? ___ Yes X No

g. Based on the determination, are the cleanup materials hazardous wastes?

___ Yes X No If Yes, list all waste codes: _____

h. Was contaminated soil or water disposed of at an off-site location? ___ Yes X No

If yes, attach copies of receipts/manifests/etc., and provide the following information:

Facility Name: _____

Address: _____

_____

Facility Contact: _____

Phone Number(s): _____

i. Is contaminated soil or water being stored and/or treated on-site? X Yes ___ No

If yes, please describe the material(s), storage and/or treatment area, and methods utilized (attach additional sheets if necessary):

EXCAVATED MATERIAL IS STOCKPILED IN TANK FARM No. 3 PENDING REMOVAL OF ADDITIONAL SOILS AND ARRANGEMENTS FOR TRANSPORT TO TPS FOR THERMAL DESORPTION. SOILS ARE PLACED ON, AND COVERED BY PLASTIC SHEETING

j. Describe cleanup activities including what actions were taken, dates and times actions were initiated and completed, volumes of contaminated materials that were removed, etc. (attach additional sheets or contractor reports if necessary or more convenient):

SEE ATTACHED WRITE-UP

5 - SAMPLING INFORMATION

Attach copies of all sample data and indicate locations of sample collection on maps.

a. Were samples of contaminated soil collected? _X_ Yes ___ No ___ N/A
b. Were samples of contaminated water collected? ___ Yes _X_ No ___ N/A
c. Were samples collected to show that all contamination had been removed?
___ Yes _X_ No ___ N/A
d. Describe sampling activities, results and discuss rationale for sampling methods:

SEE ATTACHED WRITE-UP

6 - SPILL REPORT CHECKLIST

To ensure that you have gathered all the information requested by the Department in this Spill/Release Report, please complete the following checklist:

_✓_ Map(s) of the site showing buildings, roads, surface water bodies, ditches, waterways, point of the release, extent of contamination, areas of excavation and sample collection locations attached.

_✓_ Material Safety Data Sheet (MSDS) for released material(s) attached.

_✓_ Sampling data/analytical results attached.

_N/A_ Receipts/manifests (if any) for disposal of cleanup materials attached.

_N/A_ Contractor reports (if any) attached.

SPILL/RELEASE REPORT – SUPPLEMENTAL INFORMATION
TOSCO PORTLAND TERMINAL PUMP G-163 KEROSENE RELEASE

2 – Release Information

2.I. Release Description

The release occurred apparently as the result of a sampling valve on the discharge side of Pump G-163 vibrating open and allowing kerosene to be discharged on to the ground. The pump supplies the truck loading rack with kerosene. Consequently, kerosene was discharged primarily when the pump was active although it is assumed some draindown leakage also occurred between pumping periods. The pump is adjacent to Tank 2982 (kerosene tank) in Tank Farm No. 2 along Doane Avenue.

The release was discovered at 1305 hrs on June 15, 2000 by John Sherman, the Terminal Superintendent, during a tour of the tank farm. Truck loading was temporarily terminated while the valve was closed. The valve is actually fitted to a redundant sampling port which is rarely if ever used and, as a result, did not have a cap screwed on the end of the port as is standard practice at the terminal. A kerosene sample was last pulled approximately one week before the release but reportedly from the other sampling port. A Terminal Operator was in the near vicinity of Pump G-163 as late as 1115 hrs that morning and did not see, smell, or hear anything unusual. That would suggest the release occurred over an approximately 1.75 hour period.

The pump area is equipped with a concrete containment pad that drains to the terminal process water system to capture leaks and small spills and did collect a large portion of the release. However, the sampling port faces down and is situated above some piping resulting in some of the flow being deflected by the piping or splashing on to the soil outside containment pad. The kerosene then flowed into an adjacent pipeway where it was contained.

The containment pad itself drains to a lift station at the north end of the tank farm (adjacent to a storm water separator) where a pump operating on a float activated switch transfers collected liquids to the process water separator in Tank Farm No. 1. The lift station pump apparently operated early on in the incident and transferred much of the released kerosene to the process separator before stopping. The lift station then overflowed into the adjacent pipeway where the kerosene was contained. It is uncertain why the lift station pump stopped working but we think the float switch was set for the specific gravity of water and therefore, would not necessarily be activated by the kerosene.

Based on the amount of kerosene in Tank 2982 at 12:00 am that morning, the post-release volume in the tank, and the quantity loaded into trucks during the interim period, the release volume was estimated to be 6,538 gals. Approximately 2,688 gals were recovered primarily from the process separator but also includes 50 to 100 gals. from kerosene pooled on the ground surface. The remaining 3,850 gals. is unaccounted for but assumed to be spilled on the ground surface.

4 – Cleanup Information

4.j. Description of Cleanup Activities

Following termination of the release and assessment of the situation, Tosco contracted Cowlitz Clean Sweep (CCS) to respond to the spill. CCS arrived at 1355 hrs on June 15 and began recovering the surface soils in the spill areas at 1555 hrs. Due to the limited access to the areas from above ground piping in the tank farm as well as above ground piping within the pipeway, the soil was recovered using Supersucker vacuum trucks staged at the closest access points and long flexible hoses stretching to the spill area. Soils with the heaviest apparent impact were removed that evening with considerably more soils removed the following day. Between 1 to 2 ft of soil was removed from the impacted areas around the pump and lift station that totaled approximately 60 cu. yds. The recovered soils are temporarily stockpiled in the southern corner of Tank Farm No. 3 and placed on, and covered by, plastic sheeting. The impacted soil will be sent to TPS for treatment by thermal desorption.

Tosco is currently evaluating the practicality of removing the remaining impacted soils. The analytical results for the soil samples taken suggest the kerosene has penetrated to a depth of 12 ft below ground surface or more in the pump area and greater than 5 ft in the lift station/separator area. The issue is complicated by a number of factors including the presence of pre-existing contamination particularly in the lift station area as well as the presence of pipe supports in the pipeways above both spill areas and the pump containment pad, the separator, and product storage tanks whose structural integrity could be jeopardized by the removal of large amounts of soil. We expect the feasibility evaluation to be completed within the next week.

5 – Sampling Information

5.d. Description of Samping Activities

Soil samples were collected the evening of June 15 by CCS using a shovel to dig a hole and hand trowel to collect soil at various depths within one hole for each spill area. The holes were located at the apparent low spot within each area to provide worst case conditions. Due to the sampling method, we could only reach a maximum depth of approximately 7 ft in the pump area and it appeared kerosene penetration stopped at around 3 to 4 ft in the lift station area. The intent of the sampling was to attempt to determine the depth of penetration and to differentiate between the kerosene spill and pre-existing contamination.

The samples (PA-01 through –07 in the pump area and SA-01 through –05 in the lift station/separator area) were submitted to North Creek Analytical in Beaverton on June 16th for NWTPH-Dx (diesel and heavy oil ranges) analyses and fingerprinting on a 24 hr turnaround basis. The draft results were not received until the afternoon of June 20th and indicated that fresh kerosene was the sole or primary contaminant in all samples. Kerosene concentrations decreased sharply at a depth of a few feet in the pump area but generally remained consistent in the 20,000 to 30,000 mg/kg range down to the 7ft sampling depth. The lift station area samples also demonstrated a sharp decline in concentrations from 65,600 mg/kg in the upper few feet to about 60 mg/kg at a depth of

2.5 ft. Copies of the analytical reports are attached and the results are summarized in the attached table.

In an effort to better delineate the vertical and horizontal extent of impacted soils, GeoEngineers was retained to conduct additional sampling activities. Four hand auger borings were completed in each spill area to varying depths with samples taken every foot or two and field screened for apparent presence of hydrocarbons. Generally, two samples from each boring were selected for laboratory analyses with the first sample representing the heaviest apparent contamination and the second the apparent lower extent of contamination. Due to the presence of pre-existing contamination, the lower extent was, in some cases, determined qualitatively in the field by a change from a sharp kerosene odor to a different or older petroleum odor. The samples were submitted to NCA for both NWTPH-Dx and NWTPH-Gx (gasoline) and BTEX on a 48 hr turnaround basis. The analysis for gasoline and BTEX was done to assist in the differentiation between the kerosene release and pre-existing contamination.

The analytical results for the samples collected by GeoEngineers as well as fingerprinting evaluations done by the laboratory suggest significant concentrations of petroleum hydrocarbons are present at depths up to 12.5 ft (547 mg/kg) in the pump area and 5 ft (3,370 mg/kg in the separator/lift station area. Higher hydrocarbon concentrations were noted at greater depths in the separator/lift station area but the lab indicated it was historic contamination. Copies of the analytical reports are attached and the results are summarized in the attached table.

DEQ Spill/Release Form

NOTIFICATION INFORMATION OERS Number 97-0545 OERS Contact Randy

Report Status - Cancelled___ Completed___ Ongoing___ Referred___

DEQ Person Receiving Report Zollitsch Date Reported 7/22/97 Time Reported 1634

Reporting Agency Portland Haz Mat 23 Phone 823-8198 Office Reference_____

SOURCE Unknown___ Multiple (also check all that apply)___ AST___ Bulk Petroleum Storage X Construction Site___ Container___
Drug Lab___ Drum___ Electrical Equipment___ Farm___ Industrial Plant___ Heating Oil AST___ Heating Oil UST___ Landfill___
Mine___ Motor Vehicle - [Private]___ [Commercial]___ [Tank Truck]___ Pipeline___ Railway___ Sewer Bypass___ UST___
Vessel - [Cargo]___ [Tanker]___ [Fishing]___ [Public]___ [Recreational]___ [Barge]___ Well___ Other (describe below)___

CAUSE Unknown___ Multiple (also check all that apply)___ Abandonment/Dumping___ Collision___ Derailment___ Equipment Failure___
Fire___ Human Error X? Vandalism___ Vessel - [Grounding]___ [Sinking]___ Other (describe below)___

ACTIVITY Unknown___ Bilge Pumping___ Bunkering___ Dam Construction/Maint.___ Lightering___ Mining___
Material Handling - [Application]___ [Storage]___ [Transfer] X [Transport]___ Refueling___ Other (describe below)___

WEATHER Cold___ Fog___ Hot___ Rain___ Snow/Ice___ Other (describe below)___

Release Start Time/Date_____ Release Stopped Time/Date (if different) 1630

Describe (additional information on Source, Cause, Activity and Weather) Transferring Product between tanks - overfill tank #311 - Haz mat team foamed product.

REPORT REQUIRED? Yes___ No___ Date Required_____ Date Received_____

NEAREST STREAM AND RIVER (Watershed Information) Willamette River

SPILL SITE Unocal Terminal Contact_____ Phone_____

Address_____ City_____ Zip_____ County Multnomah

Where on site?_____

Directions if no address_____

248-1517 248-1590
Marty Cramer Pager 800-817-5144 Kent Penningroth Pager 800-860-0782

RESPONSIBLE PARTY Pete Schneiders Contact Unocal-76 Products Co Phone 248-1530

Address_____ City/State_____ Zip_____

Mailing Address_____ City/State_____ Zip_____

RP Notified? Yes___ No___ Assumed Responsibility? Yes___ No___ Contractor Hired? Yes___ No___

CLEANUP CONTRACTOR CET Env. Field Rep Scott Gilfillen Phone_____

Address_____ City/State_____ Zip_____

ON-SITE CONTACT Russel Littart Affiliation Haz Mat 23 Phone 823-8198

Address_____ City/State_____ Zip_____

SUBSTANCE(S) RELEASED Unknown___ Multiple (also check all that apply)___ Animal Waste___ Chemical Product___
Drug Lab Waste___ Food Waste___ Hazardous Waste___ Herbicide___ Insecticide___ Medical Waste___ Oil - [Crude]___ [Diesel]___
Oil - [Fuel]___ [Gasoline] X [Heating]___ [Hydraulic]___ [Lube]___ [Transformer]___ [Waste Oil]___ Oil - [Unknown]___ PCBs___
Radioactive___ Sewage___ Solid Waste___ Wastewater (non-sewage)___ Other (describe below)___

DESCRIPTION - Name, Volume (actual/potential) and Physical State (gas/liquid/solid/semi-solid) for each substance:

150 gallons – revised to 11,000 gallons

MEDIA AFFECTED Air____ Groundwater____ Surface Water____ Soil X Sediment____

Name/Description_____

AGENCIES NOTIFIED (by DEQ) Agriculture__ ODFW__ ODOT__ OERS__ Poison Control__ State Health__
State Lands__ State Fire Marshal__ State Parks__ State Police__ US Coast Guard__ USEPA (Region 10)__ NRC__

Note/Reason/Other (describe)_____

SITE VISIT Yes____ No____ Hours____ Date(s)/Time(s)_____

Describe_____

FUNDING Air Quality____ Water Quality____ Solid Waste____ Haz Waste____ Haz Spill____ Highway____ OPA____

DEQ PROGRAM REFERRALS Air__ ECD__ Enforcement__ Haz Waste__ Solid Waste__ Tanks__ Water__

Date/Reason_____

Was there a threat to public safety? Yes__ No__ Explain_____

Was Public Affairs notified? Yes__ No__ Name_____

Potential for Future Releases? Yes__ No__ Explain_____

Disposal of Cleanup Materials_____

EVALUATION OF THE RELEASE

_____ Release MAY POSE a significant threat; further review or investigation is recommended (see Referrals above).

_____ Release POSES NO significant threat; no further action required because:

_____ Release by its nature rapidly dissipates (air emissions, sewage spills).

_____ Release is permitted or otherwise authorized.

_____ Release has been cleaned up to a protective level.

_____ Release otherwise requires no additional investigation, removal, remedial action, or long-term environmental or institutional controls.

_____ De minimis release - Spill to ground surface, cleaned up, and there is no apparent threat to groundwater, surface water, humans, or sensitive environments.

_____ <50 gallons Gasoline or Diesel Fuel.

_____ <100 gallons Oil, not including Waste Oil.

_____ <15 gallons Other Hazardous Substances, including Waste Oil.

Evaluator's Signature_____ Date_____

Notes - Additional information pertaining to the spill incident, site characteristics, cleanup actions, and rationale for whether or not further cleanup is needed. Attach all correspondence, field notes, reports, site sketches, etc.

Spill contained in tank farm. Storm drains Valves Shut - Vac trucks on scene - will run through Oil Water Separator
2205 - update from Vito Bebbis * 248-1565 * also John Updated Tom Post@EPA (206-726-0355 (22 15) road blocks on front between Kittridge + Metro Recycling Center.
7-23-97 - Soil Sampling + final Sweep W/ Vac trucks - river check Shows NO Signs of ~~Spill~~ release. 1200 briefing to occur.
1005 - updated Jim Gladsen

DEQ Spill/Release Form

Office Reference 95-261

NOTIFICATION INFORMATION OERS Number 95-2091 OERS Contact Dan Read

Report Status - Cancelled___ Completed___ Ongoing X Referred___

DEQ Person Receiving Report Rebecca Paul Date Reported 11/3/95 Time Reported 5:00 AM

Reporting Party OARS / Unical Phone 248-1565

SOURCE Unknown___ Multiple (also check all that apply)___ AST___ Bulk Petroleum Storage X Construction Site___ Container___
Drug Lab___ Drum___ Electrical Equipment___ Farm___ Industrial Plant___ Heating Oil AST___ Heating Oil UST___ Landfill___
Mine___ Motor Vehicle - [Private]___ [Commercial]___ [Tank Truck]___ Pipeline___ Railway___ Sewer Bypass___ UST___
Vessel - [Cargo]___ [Tanker]___ [Fishing]___ [Public]___ [Recreational]___ [Barge]___ Well___ Other (describe below)___

CAUSE Unknown___ Multiple (also check all that apply)___ Abandonment/Dumping___ Collision___ Derailment___ Equipment Failure X
Fire___ Human Error___ Vandalism___ Vessel - [Grounding]___ [Sinking]___ Other (describe below)___

ACTIVITY Unknown___ Bilge Pumping___ Bunkering___ Dam Construction/Maint.___ Lightering___ Mining___
Material Handling - [Application]___ [Storage]___ [Transfer]___ [Transport]___ Refueling___ Other (describe below) X circulation of oil for transfer

WEATHER Cold___ Fog___ Hot___ Rain___ Snow/Ice___ Other (describe below)___

Release Start Time/Date 11/2/95 between 10 PM & 3:30 AM - Release Stopped Time/Date (if different) 3:30 AM

Describe (additional information on Source, Cause, Activity and Weather) They were circulating a Block Oil. This oil has a high viscosity 3.7. Must be heated and circulated before transfering into ship. One of the pumps doing the circulation broke. The oil release into the drains and the ground. The storm system was closed.

REPORT REQUIRED? Yes X No___ Date Required within 7 days Dis. 47 Date Received___

NEAREST STREAM AND RIVER (Watershed Information) Columbia River

SPILL SITE Unical Contact Randy Taylor Phone 248-1565

Address [redacted] 5528 N. Doane City Port Zip 97 County Mult

Where on site? Inside tank farm

Directions if no address___

RESPONSIBLE PARTY Unical Contact Randy Taylor Phone 248-1565

Address Same City/State___ Zip___

Mailing Address___ City/State___ Zip___

RP Notified? Yes X No___ Assumed Responsibility? Yes X No___ Contractor Hired? Yes X No___

CLEANUP CONTRACTOR CES envir Field Rep___ Phone___

Address___ City/State___ Zip___

ON-SITE CONTACT Randy Taylor Affiliation___ Phone___

Address___ City/State___ Zip___

SUBSTANCE(S) RELEASED Unknown___ Multiple (also check all that apply)___ Animal Waste___ Chemical Product___
Drug Lab Waste___ Food Waste___ Hazardous Waste___ Herbicide___ Insecticide___ Medical Waste___ Oil - [Crude] X [Diesel]___
Oil - [Fuel]___ [Gasoline]___ [Heating]___ [Hydraulic]___ [Lube]___ [Transformer]___ [Waste Oil]___ Oil - [Unknown]___ PCBs___
Radioactive___ Sewage___ Solid Waste___ Wastewater (non-sewage)___ Other (describe below)___

DESCRIPTION - Name, Volume (actual/potential) and Physical State (gas/liquid/solid/semi-solid) for each substance:

Block Oil - ~~2,000~~ 5000 gallons liquid.

MEDIA AFFECTED Air____ Groundwater____ Surface Water____ Soil X Sediment____

Name/Description Release into Water separator system

AGENCIES NOTIFIED (by DEQ) Agriculture___ ODFW___ ODOT___ OERS___ Poison Control___ State Health___
State Lands___ State Fire Marshal___ State Parks___ State Police___ US Coast Guard___ USEPA (Region 10)___ NRC___

Note/Reason/Other (describe)_____

SITE VISIT Yes X No___ Hours 2.0 Date(s)/Time(s) 11/3/95 7:00 - 9:00

Describe Will likely return on Sunday, because of Rain in Forcast

FUNDING Air Quality___ Water Quality___ Solid Waste___ Haz Waste___ Haz Spill X Highway___ OPA___

DEQ PROGRAM REFERRALS Air___ ECD___ Enforcement___ Haz Waste___ Solid Waste___ Tanks___ Water X

Date/Reason To headquarter Mike Zollich

Was there a threat to public safety? Yes___ No X Explain_____

Was Public Affairs notified? Yes___ No X Name_____

Potential for Future Releases? Yes___ No X Explain_____

Disposal of Cleanup Materials Solid Waste

EVALUATION OF THE RELEASE

X Release MAY POSE a significant threat; **further review** or investigation is recommended (see Referrals above).

____ Release POSES NO significant threat; **no further action** required because:

____ Release by its nature rapidly dissipates (air emissions, sewage spills).

____ Release is permitted or otherwise authorized.

____ Release has been cleaned up to a protective level.

____ Release otherwise requires no additional investigation, removal, remedial action, or long-term environmental or institutional controls.

____ De minimis release - Spill to ground surface, cleaned up, **and there is no apparent threat to groundwater, surface water, humans, or sensitive environments.**

____ <50 gallons Gasoline or Diesel Fuel.

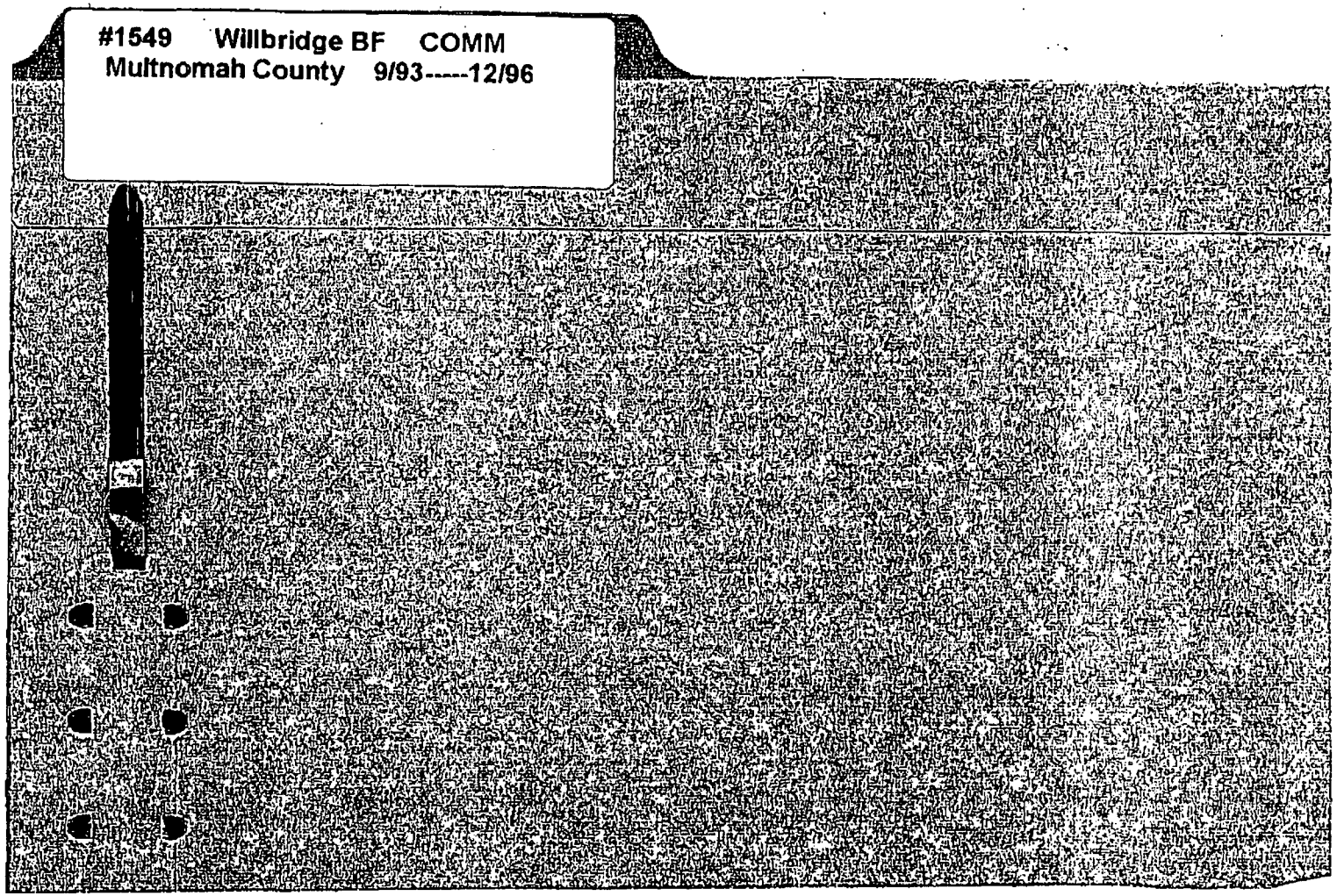
____ <100 gallons Oil, not including Waste Oil.

____ <15 gallons Other Hazardous Substances, including Waste Oil.

Evaluator's Signature Rebecca Paul Date 11/3/95

Notes - Additional information pertaining to the spill incident, site characteristics, cleanup actions, and rationale for whether or not further cleanup is needed. Attach all correspondence, field notes, reports, site sketches, etc.

cc: _____ If a permitted source, File: _____



WKR/comm

KIERNAN Jill A *DEQ

From: StLOUIS Dave *DEQ
To: KIERNAN Jill A *DEQ
Subject: UNOCAL Willbridge Release Report
Date: Wednesday, March 13, 1996 11:40AM

At 11:20 am on March 13, 1996, I received a call from Joe Comstock, UNOCAL, Seattle, who wished to notify DEQ that a release had been discovered in their tank farm area; and to request approval to return uncontaminated soils to the excavation area. The tank farm area is centrally located on the facility.

On March 12, UNOCAL was excavating a 6' x 6' x 7' deep pit for installation of a lift station for stormwater and discovered a sheen on the groundwater surface. Overburden was clean per FID analysis; soils at the interface with groundwater were at 800 (ppm?). Soils were segregated into two piles; a larger pile of uncontaminated soils; and a smaller pile of contaminated. Samples were taken of the contaminated pile for laboratory analysis and results will be available tomorrow afternoon.

Any soils that are hazardous waste will be drummed and handled according to the HW rules. Joe will be seeking permission to return the uncontaminated soils to the excavation area.

He emphasized that he wanted to keep DEQ fully informed of the event. He has also left a voice mail with you and would like to talk with you if possible.

Thanks.

Chevron

Lubricants

Chevron Products Company
Willbridge Distrubution Center
5531 NW Doane Avenue
Portland,OR 97210

September 22, 1998

Ms. Jill Kiernan
Oregon Department of Environmental Quality
2020 SW Fourth Ave.
Suite 400
Portland, OR 97201-4987

Case Number 98-1378
Confirmatory Sampling Results for Neutral 100 RLV Spill
Chevron Products Co. Willbridge Distribution Center

Dear Ms. Kiernan:

In response to Mr. Garner's Notice of NonCompliance dated July 30, 1998, Chevron is submitting confirmatory sampling analysis results of the cleanup area from the June 9, 1998 spill of Neutral 100 RLV in our Lt. Products tank field.

Confirm #1 sample analysis represents the soil sample pulled from Lateral Sample #1, which is identified on the attached map of the spill area in the tank field.

Confirm #2 sample analysis represents the soil sample pulled from Vertical Sample #2, which is identified on the same map of the spill area.

Confirm #3 sample analysis represents the soil sample pulled from Lateral Sample #3, which is identified on the same map of the spill area.

Copies of the lab analytical are attached for your review.

If you have any questions or require additional information, please feel free to contact me at 221-7758.

Sincerely,

Terri L. Bullock

Terri L. Bullock
Associate Compliance Specialist

cc w/o attachments DH Ofcacek
JM Driscoll

COPPOR00002574

OAL

L7709

September 9, 1998

Keith Johnson
AFTS/Waste Management Industrial Service
5720 - C NE 121st Avenue
Suite 105
Vancouver, WA 98682

Phone: (360) 260-0882
FAX: (360) 260-9018

Re: Laboratory Sample Analysis

Project: Chevron USA

Project Manager: Keith Johnson

Dear Keith Johnson:

On Monday, August 24, 1998, OAL received three (3) soil samples for analysis. The samples were analyzed utilizing EPA, ASTM, or equivalent methodology.

Should you have any questions concerning the results in this report, please contact us at (503) 590-5300. Refer to OAL login number L7709.

Sincerely,

Patty Boyden
Project Manager

Suzanne LeMay
QA/QC Officer

08/10/98 07:38 ☎503 229 6945 DEQ NW REGION →→→ DEQ 9TH FL 004/005

Spill Project Chevron Lube Spill 0.1 TAS # 10876 OERS # 98-1378

2:06 at 2206 hrs. 6-9-98

NOTIFICATION: OERS Contact Randy DEQ Contact Sherczyk Time/Date Reported 2206 hrs

Reporting Party 5:45 our time Phone NRC 800-424-8802

SOURCE: Unknown Multiple (also circle all that apply) AST (Bulk Petroleum Storage) Construction Site Container Drug Lab Drum Electrical Equipment Farm Industrial Plant Heating Oil AST Heating Oil UST Landfill [Motor Vehicle] - Private - Commercial - Tank Truck Mine Pipeline Railway Sewer Bypass UST [Vessel] - Cargo - Tanker - Fishing - Public - Recreational - Barge Well Other (describe below) Bulk Storage

CAUSE: Unknown Multiple (also circle all that apply) Abandonment/Dumping Collision Derailment (Equipment Failure) Fire Human Error Vandalism [Vessel] - Grounding - Sinking Other (describe below)

ACTIVITY: Unknown Bilge Pumping Bunkering Dam Construction/Maintenance Lightering Mining [Material Handling] - Application - Storage - Transfer - Transport - Refueling Other (describe below)

WEATHER: Cold Fog Hot Rain Snow/Ice Other (describe below)

SUBSTANCE(S) RELEASED: Unknown Multiple (also circle all that apply) Animal Waste Chemical Product Drug Lab Waste Food Waste Hazardous Waste Herbicide Insecticide Medical Waste PCBs [Oil] - Crude -Diesel - Fuel - Gasoline - Heating - Hydraulic (- Lube) - Transformer - Waste Oil (Oil (Unknown)) Radioactive Sewage Solid Waste: Wastewater (non-sewage) Other (describe below)

Release Start Time/Date 5:45 P.M. 6-9-98 Release Stopped Time/Date (if different)

Additional information on Source, Cause, Activity, Weather and Substance (actual/potential volume, physical state, etc.):

~10,000 gallons oil from bulk plant with secondary containment. Lube oil

12,031 Total gallons spilled.

MEDIA AFFECTED: Air Groundwater Surface Water (Soil) Sediment Pavement

Nearest Stream or River/Name/Description/etc.

SPILL SITE: Chevron Contact Phone

Address 5531 NW Doane Ave City Portland Zip County Multnomah

Where on site?

Directions if no address

RESPONSIBLE PARTY: Chevron Contact Dennis Ofcacek Phone 503 221-7878

Address 5531 NW Doane Ave City/State Portland - Zip 97210

Mailing Address City/State Zip

RP Notified? - (Yes) No Assumed Responsibility? - (Yes) No Contractor Hired? - (Yes) No

CLEANUP CONTRACTOR: McDowell Tank Cleaning Field Rep Phone

Address City/State Zip

ON-SITE CONTACT: Affiliation Phone

Affiliation Phone

FUNDING: Air Quality Water Quality Solid Waste Haz Waste (Haz Spill) Highway OPA

☒ TAS Initiated? ☐ SPIN Entered? ☐ SPIN Updated? Initial Letter Sent? - (Yes) No

REPORT REQUIRED? - (Yes) No Date Required 7-7-98 Date Received 7/6/98

DEQ Contractor Project # Date File Completed 7/30/98 By (initials) LGS ☒ Close TAS

Revised: 8/21/97

A

COPPOR00002576

Oregon
John A. Kitzhaber, M.D., Governor

Department of Environmental Quality
Northwest Region
2020 SW Fourth Avenue
Suite 400
Portland, OR 97201-4987
(503) 229-5263 Voice
TTY (503) 229-5471

CERTIFIED MAIL
RETURN RECEIPT REQUESTED

July 30, 1998

Dennis Ofcacek
Chevron Products Company
5531 NW Doane Avenue
Portland, OR 97210

Re: **NOTICE OF NONCOMPLIANCE**
NON-SP-98-012
Chevron Lube Oil Spill
OERS No. 98-1378

Dear Mr. Ofcacek:

This notice is regarding a 12,031 gallon spill of base stock blending oil that occurred June 9, 1998, at your light products tank field at your Willbridge Distribution Center at 5531 NW Doane Avenue in Portland, Oregon. The spill file is being closed for this incident, but a copy of the file is being referred to Jill Kiernan of our Cleanup Program. Please submit any supplemental information directly to Jill as the project manager for the Willbridge Bulk Fuels Area.

We have received and reviewed your spill report. It appears that the impacted soils were removed over the spill area, but no confirmatory sampling was conducted. Representative sampling to ascertain that the contamination has been removed would normally follow a cleanup of this magnitude. Please conduct confirmatory sampling in the area of the cleanup and submit those results directly to Jill Kiernan.

This Notice of Noncompliance is for failure to immediately report the spill. The spill was discovered at 1745 hours on June 9, 1998. Chevron notified the National Response Center at 1905 hours. The Department of Environmental Quality (DEQ) was notified of the spill at 2206 hours by the Oregon Emergency Response System (OERS), who had been contacted by the National Response Center. Chevron failed to notify OERS.

Oregon Revised Statutes (ORS) 466.605 to 680 (copy enclosed) require any person liable for a spill to immediately report the spill. A delay in reporting spills can result in more significant environmental damages by preventing timely response and assistance from public agencies. For petroleum terminals located on the river, DEQ expects notification to OERS within minutes of the discovery of a spill. Failure to immediately report the spill is a violation of ORS 466.635.

SPILL/RELEASE REPORT

1 - GENERAL INFORMATION OERS No. 98-1378

a. Company/Individual Name: Chevron Products Co.

b. Address: 5531 NW Doane Ave.
Portland, OR 97210

c. Company Contact Person: Terri L. Bullock

d. Phone Number(s): (503) 221-7758

e. Specific on-site location of the release (and address if different from above):
Light Products Tankfield impoundment at Portland terminal - same address.

Please provide a map of the site showing area(s) where the release occurred, any sample collection locations, location of roads/ditches/surface water bodies, etc.
ATTACHMENT 1

2 - RELEASE INFORMATION

a. Date/Time Release started: ~3:45Pm 6/9/98 Date/Time stopped: 6/9/98 - 5:45pm

b. Release was reported to (specify Date/Time/Name of Person contacted where applicable):
ODEQ 6/10/98 - 10am Loren Garner #98-1378
OERS
NRC 6/9/98 - 7:05pm Mr. Rutherford - # 440857
Other (describe): Portland Fire Dept. 6/9/98 - 9pm Bill Knotts

c. Person(s) reporting release: Dennis Ofcacek / Terri Bullock

d. Name, quantity and physical state (gas, liquid, solid or semi-solid) of material(s) released:
12,031 gls. Neutral 100 RLV Base Stock - liquid

Please attach copies of material safety data sheets (MSDS) for released material(s). ATTACHMENT 2

e. The release affected: ___Air ___Groundwater ___Surface Water ___Soil ↘ Sediment

f. Name and distance to nearest surface water body(s), even if unaffected (include locations of creeks, streams, rivers and ditches that discharge to surface water on maps):
Willamette River - approx. 700 ft. East of spill location
Has the release reached the surface water identified above?: ___Yes ↘ No
Could the release potentially reach the surface water identified above? ___Yes ↘ No
Explain: Only pathway to river is through stormwater/collection system which was closed off at time of spill.

g. Depth to nearest aquifer/groundwater: 12-13 ft
Is nearest aquifer/groundwater potable (drinkable)? ___Yes ↘ No
Has the release reached the nearest aquifer/groundwater? ___Yes ↘ No
Explain: Release contained in pipeway, penetrating impounded ground - 4 inches in depth.

4 - CLEANUP INFORMATION

a. Was site cleanup performed? ↘ Yes ___ No

If No, explain: _____

b. Who performed the site cleanup?

Company Name: McDowell Tank Cleaning

Address: 4000 NW St. Helen's Rd.
Portland, OR 97210 241-2910

Cleanup Supervisor: Dale Bullock - Chevron

Phone Number(s): 221-6571

c. Has all contamination been removed from the site? ↘ Yes ___ No

If No, explain: _____

d. Estimated volume of contaminated soil removed: 100 cu.yd.

e. *Estimated volume of contaminated soil left in place:* 0

f. Was a hazardous waste determination made for cleanup materials? ↘ Yes ___ No

g. Based on the determination, are the cleanup materials hazardous wastes?

___ Yes ↘ No If Yes, list all waste codes: _____

h. Was contaminated soil or water disposed of at an off-site location? ↘ Yes ___ No

If yes, attach copies of receipts/manifests/etc., and provide the following information:

Facility Name: Columbia Ridge Landfill ATTACHMENT 4

Address: 18177 Cedar Spring Lane
Arlington, OR 97812

Facility Contact: _____

Phone Number(s): (541) 454-2030

i. Is contaminated soil or water being stored and/or treated on-site? ___ Yes ↘ No

If yes, please describe the material(s), storage and/or treatment area, and methods utilized (attach additional sheets if necessary):

_____

_____

_____

_____

j. Describe cleanup activities including what actions were taken, dates and times actions were initiated and completed, volumes of contaminated materials that were removed, etc. (attach additional sheets or contractor reports if necessary or more convenient):

Soil in impacted area removed to a depth of 6 inches over entire release area. Cleanup activities began 6/9/98 and continued through 6/24/98. Approximately 100 cu.yd of soil & gravel was removed and new gravel has been filled in impacted area.

Report of Oil and Hazardous Substances Release GO-140

Report Number 98-5

Reporting Company: CPOS/GL	☑ Spill/Release ☐ Discovery of Underground Contamination	Date of Release or Discovery: 6-9-98	
Department/Division: MAFL		Time: ~3:45 ☐AM ☑PM	
Facility Location: Willbridge Dist. Center	**Receiving Medium(s)** ☐Air ☐Deck ☐Subsurface ☐Land ☐Surface Water ☐Lined Impoundment ☐Paving ☐Ground Water ☑Unlined Impoundment	Release Confined to Company Property ☑Yes ☐No	
Incident Location: main Tankyard			
Material Spilled/Released/Leaked: 2100 RLV Base Stock			

Reported to the Following Government Agencies	Name of Person Reported to	Name of Company Person Who Made Report	Date and Time Reported
☑ National Response Center case #490857	Mr. Rutherford	Dennis Ofcacek	6/9/98-7:05PM
☐ U.S. Coast Guard			
☐ EPA Regional Office			
☑ State Agency – Name: OR. Dept. of Env. Quality case #98-1378	Loren Gerner	D. Ofcacek/T. Bullock	6/10/98-10 am
☐ Other – Name:			

☐ **Not Reported to a Government Agency**

Quantity Released as: — **Quantity Recovered*:**

Crude	____ Gal.	____ Bbl.	____
Produced Water	____ Gal.	____ Bbl.	____
Refined Product	12,231 Gal.	____ Bbl.	____
Produced/Natural Gas	____ MSCF		
Hazardous Substance (☐ CERCLA "Reportable Quantity")	____ Lbs.	____ Tons	____

*Removed from the Environment

Notice of Violation: ☐Yes ☐No ☑Not Known at this Time

Estimated Cleanup Costs: $

Estimated Damages: $

Sr[illegible]

Vessel/Barge – Name

Offshore Platform – Name or Number

Service Station – Number

☐ Tank Aboveground ☐ Tank Underground ☐ Tank Truck ☐ Tank Car
☐ Hull Leak ☐ Sump ☐ Pipeline/Flowline ☐ Piping
☐ Process or Pumping Equipment ☐ Stack, Flare ☐ Unknown ☐ Other ____
☐ Well

Cause(s)

☑ Human Error ☑ Faulty Procedure ☐ Mechanical Failure ☐ Design Malfunction ☐ Unknown
☐ External Corrosion ☐ Internal Corrosion ☐ Act of God ☐ Non-Company ☐ Other ____

Describe how release occurred or how it was discovered and any effect it may have had on other's property. Discuss the degree of public, press or regulatory attention. Identify the company or contractor involved in non-company releases. Operator started a product blend using a 'revamped' piping segment. A long segment of pre-existing, 4" pipe which should have been divorced/isolated from the 'revamped' system was left connected by the contractor and resulted in the base stock being pumped into the tankfield impoundment. The contractor used to 'revamp' this system was McDowell Welding + Pipefitting. NRC, Oregon DEQ and Local Fire Dept. were involved in communications and reporting activities.

Describe assessment and remedial action taken and planned, and the disposal method of recovered material (if any).
All released product contained in company's tankfield impoundment. Contaminated soil/gravel has been removed into sealed drop boxes and site refilled with clean gravel. Contaminated soil will be disposed of as non-regulated per lab analytical results to an approved disposal site.

Action Taken to Prevent Recurrence (if applicable)
See attached incident report

Witnesses to Spill – Name	Company	Address (of Non-Chevron Witnesses)

Report Prepared by	Date	Report Approved by	Date
T. Bullock	6/19/98		

Printed in U.S.A. GO 140 (CO-8)

COPPOR00002580

WILLBRIDGE DISTRIBUTION CENTER
INCIDENT INVESTIGATION REPORT

WDC Incident # 98-5 Spill	**Day/Date of Incident** Tuesday, June 9, 1998
Time of Incident	3:30 - 3:45 PM

DEPARTMENT AND LOCATION:
Main Tankfield

NATURE OF INCIDENT:
12,031 gallons of base stock (100 Neutral RLV) was unexpectedly released into the main tankfield impound.

DESCRIPTION OF INCIDENT:
The release occurred when a blend operator started a product blend using a recently 'revamped' piping system. A long segment of pre-existing 4" pipe which should have been divorced/isolated from the revamped system by the contractor before startup was left connected and resulted in base stock being pumped into the main tankfield impoundment.
Although completely contained within a relatively small area – underneath a grade-level pipeway – a significant amount was unrecoverable as free liquid and will require remediation of the area. The size of the release (>42 gallons of oil) required that the spill be reported to the Oregon State DEQ.

ROOT CAUSE(S):
- No maintenance procedure for isolation of abandoned lines.
- Practices are not consistent.
- Detail to break and blind connection at the tee was not written down in the scope of work.
- Gap in the Post-Review activity.
  i.e. team approach
  uninterupted walkdown
- Established practice for pressure/leak test not followed.

RECOMMENDATIONS TO PREVENT RECURRENCE:
- Develop maintenance instructions to identify management practices for abandoning lines. Ensure abandoned systems are reviewed prior to revamping or putting into use.
- Alter work request detail and/or Pre-Construction Review to include critical areas of job assignment.
- Collectively review existing Post-Construction Review written procedure. (Maint. Supervisor, Head Operator and Head Mechanic. Possibly include contractor foreman.)
- Develop maintenance instruction for pressure/leak test.

- McDowell contractor company to provide Chevron with their action plan to ensure no recurrences in the future.

FOLLOW-UP REQUIRED: YES X NO

Through Compliance Committee meeting minutes and management sustainability observations.

COMPLETION DATE(S) FOR ACTION(S) REQUIRED:

IIT TEAM MEMBERS:

Dale Bullock	Terri Bullock	Dennis Ofcacek
John Driscoll	Mike Lassiter	Carl Blom
Scott Curtis	Chuck Rutherford (McDowell contractor in charge)	

ATTACHMENT: **Timeline**
Why-Tree Chart
GO-140 Report of Release
Cost Worksheet

D.H. Ofcacek
Willbridge Distribution Center Manager

_____

D.L. Bullock
Department Supervisor

_____

T.L. Bullock
Associate Compliance Specialist

_____

Date Prepared: 6/12/98

TIMELINE FOR INCIDENT"

Date	Time	Event
May 11 1998		Pre-construction review completed. Scope and detail of mechanical changes discussed and established between Dale Bullock, Mike Lassiter, and Chuck Rutherford (McDowell contractor).
June 5 1998	a.m.	Final mechanical check of the system (the Pressure & Leak test) is attempted. Relative Sequence: -Chuck asks Carl Blom, HO, to pressure the system which Carl attempts to do by opening plant/yard air to the piping segment. -Assuming the system is pressured, and having heard air flow in the piping, Chuck proceeds to soap-check all welds and flanged connections made during the project.
	to	-When Chuck finishes this step, removes maintenance locks & tags and notifies Mike Lassiter , HM, that the work is complete and tight. -Mike works through the Post Construction Review sign-off sheet, with Chuck, and signs off that all work is complete. -Mike gives the Review Sheet to Carl who signs-off for operations that the work is complete. -Carl initiates removal of operation locks & tags and prepares to depressure system.
	3-4 pm	-Carl turns over to Scott Curtis, Swing LO, to depressure the system and close two remaining air connections on the system. -Scott closes remaining valves and opens piping system into Tk 17 to depressure (He recalled in the interview that the sound of depressuring didn't seem quite right, but it was not so different that he did any investigation.
June 9 1998	3:30 pm	Scott plans the Havoline blend which will use the recently commissioned piping system.
	3:45 - 4:00	Pumps 300 gals of base from Tk 17 (100N RLV)into piping and pot to void air from the system
	4:00 - 4:15	Attempts to pump 2000 gallons of base into blend tank (Tk 188). (During this step it is estimated that 9 to 10 M gallons of the base stock was

		pumped into the impound)
	4:15 - 5:00	Pumping of base stopped when 2M gallons are in Tk 188. Additives are then added to blend.
	5:05	Scott hand gages Tk 17 and discovers that remaining volume is low, proceeds to discuss restocking and is concerned that there should be more available in the tank.
		Pot is pumped to Tk 188
	5:15 to 5:35	Balance of base stock (3000gal) is attempted to be pumped from 17 to 118. (This is when the balance of the spill occurred)
	5:45	Scott coincidentally discovered spill and base being pumped into the main tankfield impound while performing an unrelated blending task.

Interviews were conducted by John Driscoll, Dale Bullock & Terri Bullock on 6/10/98. Interviews involved personnel with involvement in both the blend operation and mechanical work performed on the piping system:

Interviewee's:

Mike Lassiter - the head mechanic with responsibility for interfacing with the contract maintenance foreman on a day-to-day basis.

Carl Blom - the head operator on days who was responsible for the "post construction review" and acceptance of the system back from maintenance.

Scott Curtis - the swingshift lead operator who was responsible for the blend operation on 6/9 that resulted in the release.

Chuck Rutherford- the mechanical foreman for McDowell (WDC's primary maintenance contractor), who was responsible for actually making the piping changes.

Spill Project Chevron Ethanol #58 **TAS #** 12541 **OERS #** 99-0791

NOTIFICATION: OERS Contact Tami DEQ Contact Greenway Time/Date Reported 14:30 3-22-99

Reporting Party RP- Chris Manning Phone 925-842-1477

SOURCE: Unknown Multiple (also circle all that apply) (AST) Bulk Petroleum Storage Construction Site Container
Drug Lab Drum Electrical Equipment Farm Industrial Plant Heating Oil AST Heating Oil UST Landfill
[Motor Vehicle] - Private - Commercial - Tank Truck Mine Pipeline Railway Sewer Bypass UST
[Vessel] - Cargo - Tanker - Fishing - Public - Recreational - Barge Well Other (describe below)

CAUSE: Unknown Multiple (also circle all that apply) Abandonment/Dumping Collision Derailment (Equipment Failure)
Fire Human Error Vandalism [Vessel] - Grounding - Sinking Other (describe below)

ACTIVITY: Unknown Bilge Pumping Bunkering Dam Construction/Maintenance Lightering Mining
[Material Handling] - Application (- Storage) - Transfer - Transport - Refueling Other (describe below)

WEATHER: Cold Fog Hot Rain Snow/Ice Other (describe below)

SUBSTANCE(S) RELEASED: Unknown Multiple (also circle all that apply) Animal Waste (Chemical Product)
Drug Lab Waste Food Waste Hazardous Waste Herbicide Insecticide Medical Waste PCBs
[Oil] - Crude -Diesel - Fuel - Gasoline - Heating - Hydraulic - Lube - Transformer - Waste Oil - Oil (Unknown)
Radioactive Sewage Solid Waste Wastewater (non-sewage) Other (describe below)

Release Start Time/Date 7-20-99 1445 - approximately - discovered today Release Stopped Time/Date (if different)

Additional information on Source, Cause, Activity, Weather and Substance (actual/potential volume, physical state, etc.):
Double-bottomed storage tank #58 - capacity 250,000 gal of ethyl alcohol - can't account for 12,600 to 16,800 gal - leak in tank bottom

MEDIA AFFECTED: Air Groundwater Surface Water (Soil) Sediment Pavement

Nearest Stream or River/Name/Description/etc. Willamette

SPILL SITE: Chevron Tank Farm Contact Mark Barrett Phone 221-7767

Address 5924 NW Front City Portland Zip 97201 County Multnomah

Where on site? Willbridge Distribution Center

Directions if no address

RESPONSIBLE PARTY: Chevron Products Co. Contact Phone

Address City/State Zip

Mailing Address City/State Zip

RP Notified? - Yes No Assumed Responsibility? - Yes No Contractor Hired? - Yes No

CLEANUP CONTRACTOR: Field Rep Phone

Address City/State Zip

ON-SITE CONTACT: Affiliation Phone

Affiliation Phone

FUNDING: Air Quality Water Quality Solid Waste Haz Waste (Haz Spill) Highway OPA

☒ TAS Initiated? ☐ SPIN Entered? ☐ SPIN Updated? Initial Letter Sent? - (Yes) No

REPORT REQUIRED? - (Yes) No Date Required 4-13-99 Date Received 4-19-99

DEQ Contractor Project # Date File Completed 6-17-99 By (initials) LLG ☒ Close TAS
by referral

Revised: 8/21/97

Chevron

Chevron Products Company
6004 Bollinger Canyon Road
Building L-1216
San Ramon, Ca. 94583
P.O. Box 6004
San Ramon, Ca. 94583-0804

Marketing-Northwest Region
Phone 925-842-1477

April 16, 1999

Loren Garner
Department of Environmental Quality
2020 SW 4th, #400
Portland, Oregon 97201-5884

DEPT OF ENVIRONMENTAL QUALITY
RECEIVED

APR 19 1999

NORTHWEST REGION

Re: Ethanol Spill OERS No. 99-0791

Enclosed is the report required by Oregon Administrative Rules (OAR) 340-108-040, for the Ethanol leak which occurred at the Chevron Willbridge Light Terminal Products, located in Portland, Oregon. The tank was located in Chevron's impound area, surrounded by a walk. Tank 58 dimensions are 40 by 30 with a safe fill capacity of 5,980 bbls. Upon discovery of the material in the double bottom shell, the tank was immediately emptied and removed from service within 24 hours.

Please review the documents and feel free to contact. Jerry Holmes, Chevron Willbridge Terminal Manager, at 503-221-7714 or myself at 925-842-1477, if you have any further question or need any further information.

Sincerely,

Curtis E. Manning
Chevron Terminal Compliance Specialist
Cuem@chevron .com

cc. Jerry Holmes, Willbridge Terminal Manager

SPILL/RELEASE REPORT

1 - GENERAL INFORMATION OERS No. 99-0791

a. Company/Individual Name: CHEVRON Products

b. Address: 5924 N.W. FRONT ST
PORTLAND, OREGON

c. Company Contact Person: JERRY HOLMES

d. Phone Number(s): 503-221-7714

e. Specific on-site location of the release (and address if different from above):

Please provide a map of the site showing area(s) where the release occurred, any sample collection locations, location of roads/ditches/surface water bodies, etc.

2 - RELEASE INFORMATION

a. Date/Time Release started: 3/20 7^00 PM Date/Time stopped: 3/21 7 PM

b. Release was reported to (specify Date/Time/Name of Person contacted where applicable):

ODEQ

OERS 3/22/99 2^30 pm TAMMY BURROUGHS

NRC 3/22/99 2:05 pm MATT ROBERSTON

Other (describe):

c. Person(s) reporting release: Curtis Manning, Compliance Specialist

d. Name, quantity and physical state (gas, liquid, solid or semi-solid) of material(s) released:
Approximately 400-450 BBLS - Liquids.

Please attach copies of material safety data sheets (MSDS) for released material(s).

e. The release affected: ___Air ___Groundwater ___Surface Water X Soil ___Sediment

f. Name and distance to nearest surface water body(s), even if unaffected (include locations of creeks, streams, rivers and ditches that discharge to surface water on maps):
Willamette River - 1/2 mile

Has the release reached the surface water identified above?: ___Yes X No
Could the release potentially reach the surface water identified above? ___Yes X No
Explain: Ground wells Are be Sampled and Checked
Any material will be immediately Removed.

g. Depth to nearest aquifer/groundwater:

Is nearest aquifer/groundwater potable (drinkable)? ___Yes X No
Has the release reached the nearest aquifer/groundwater? ___Yes X No
Explain: Ground well Results Are negative
please see EMAIL from G. O Regan And TABLE 1

4 - CLEANUP INFORMATION

a. Was site cleanup performed? ___ Yes _X_ No
If No, explain: Asphalted Affected Area which contacted ethanol/evaporated with sun heat.

b. Who performed the site cleanup?
Company Name: N/A
Address: _____
_____
Cleanup Supervisor: N/A
Phone Number(s): _____

c. Has all contamination been removed from the site? ___ Yes _X_ No
If No, explain: _____
_____

d. Estimated volume of contaminated soil removed: NONE

e. Estimated volume of contaminated soil left in place: NONE

f. Was a hazardous waste determination made for cleanup materials? _X_ Yes ___ No

g. Based on the determination, are the cleanup materials hazardous wastes?
___ Yes _X_ No If Yes, list all waste codes: _____

h. Was contaminated soil or water disposed of at an off-site location? ___ Yes _X_ No
If yes, attach copies of receipts/manifests/etc., and provide the following information:
Facility Name: N/A
Address: _____
_____
Facility Contact: _____
Phone Number(s): _____

i. Is contaminated soil or water being stored and/or treated on-site? ___ Yes _X_ No
If yes, please describe the material(s), storage and/or treatment area, and methods utilized (attach additional sheets if necessary):
N/A
N/A

j. Describe cleanup activities including what actions were taken, dates and times actions were initiated and completed, volumes of contaminated materials that were removed, etc. (attach additional sheets or contractor reports if necessary or more convenient):
N/A
N/A

76 PRODUCTS COMPANY

Portland Terminal
November 7, 1995

Attn: Rebecca Paul
DEQ
Northwest Region
2020 S.W. Fourth Ave., Suite 400
Portland, OR 97201-4987

Re: SPILL REPORT for release
on 11/3/95.

1.) GENERAL INFORMATION

Company : Unocal Corporation
Contact Person : Mike Dailey
Address : 5528 N.W. Doane Ave. Portland, OR 97210
Phone : 503-248-1538
Environmental contact : Mike Thomas \ Mike Dailey

2.) SPILL INFORMATION, INITIAL RESPONSE

-Spill was reported to Unocal personnel at 0450 11/3/95.
-Spill reported to DEQ @ 0535 Case #952191, EMD @ 0445 Case #95-20191,
-Employee making initial notifications was Bill Padillas, Head Operator on shift.
-On-scene contact person was Mike Dailey, acting incident commander.
-The spill occurred in a tank farm at the above address.

3.) SPILL EXPLANATION

At approximately 0335, 11/3/95, Unocal Head Operator Bill Padillas was on a terminal security round when he discovered product spraying into the air from pump G1B next to tank 2783 in tank farm #1.

Tank 2783 was put into circulation at approximately 2100 on 11/2/95 using pump G1B. On the discharge side of the pump is a relief valve connected by a threaded pipe nipple. During circulation, the nipple broke, opening a hole approx. 1/2" where the product emitted from until the operator shut down the operation.

The product spilled into a process drain on the pump pad and reached a storm drain by the walkway into the tank farm. Both drains flowed to separators in the

5528 Northwest Doane Avenue
P.O. Box 76
Portland, Oregon 97207
PH (503) 248-1531
A Unocal Company

-A safety meeting was conducted for all responding individuals. A site safety plan was established to determine the level of personal protective equipment required to handle the spilled material. (See attachment #2 for initial site safety plan.)
-The liquid that was recovered by vacuum truck was pumped to a slops tank on site. The barrels will be transported to a disposal site yet to be determined. (Documentation of disposal will be provided when it is available.)

9.) DETERMINATION OF CLEAN UP LEVEL

-The area has not been determined to be cleaned up at this time. Soil samples were taken and submitted to Columbia Inspection for analysis. Results from those samples are expected by 11/10/95 and will be forwarded to DEQ promptly.
-We are following the soil matrix for Underground storage tank cleanup per DEQ's Rebecca Paul.

10.) SITE SAMPLING

-See attachment #3 for sampling locations. All sampling locations were areas that product was removed from.
-The samples were obtained by scraping the surface into an 8 oz bottle.
-The samples were collected by Roger McGowne, Unocal Maintenance Supervisor.
-The samples were collected and immediately transported to the lab in a cooler provided by the testing facility.
-All samples were taken to Columbia Inspection for analysis.
-The samples will be tested by method TPH-418.1 Modified.
-See attachment #4 for sample results.

11.) MAP OF RELEASE SITE

-See attachment #5 for spill location.

12.) SPILL PREVENTION

-The investigation conducted by Unocal is not complete at this time. We will send our remedial action plan to DEQ after it is finalized.

spill mut. R.O. √ done 3-17

MEMO TO : ~~TRB~~ & ~~REGIONAL OPS.~~ cc ~~[illegible]~~

FROM : C. KRESSLER

RE: CHEVRON GASOLINE SPILL 3/14/80

WHAT: APPROXIMATELY 4200 GAL. OF CHEVRON SUPREME GASOLINE SPILLED DUE TO "MATERIAL FAILURE" OF STORAGE TANK # 86 WHICH WAS FULL (966,000 GAL. TOTAL.)

WHEN: 7:00 AM, FRI., MAR. 14, 1980

HOW: TANK WAS "JUST" FILLED WHEN WORKMEN DETECTED A GASOLINE ODOR. FOUND LEAK AT BOTTOM OF TANK - MATERIAL FAILURE - LEAKING ABOUT 10 GAL./MINUTE.

ACTION:
1. WORKMEN IMMEDIATELY CLOSED STORM DRAIN TO THE WILLAMETTE RIVER
2. FIRE DEPT. NOTIFIED & "FOAMED" ENTIRE AREA OF SPILL
3. COAST GUARD & DEQ ALERTED - COAST GUARD KEEPING WATCH ON STORM SEWER OUTFALL & RIVER BANK AREA.
4. WESTERN ENVIRONMENTAL SVCS. NOTIFIED - ON STAND BY.
5. WORKMEN PUMPING / SKIMMING SPILLED

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GASOLINE TO ANOTHER TANK

6. WORKMEN PUMPING H_2O INTO BOTTOM OF LEAKING TANK SO JUST H_2O LEAKS OUT.

7. WORKMEN PUMPING GASOLINE FROM TOP OF LEAKING TANK TO ANOTHER TANK.

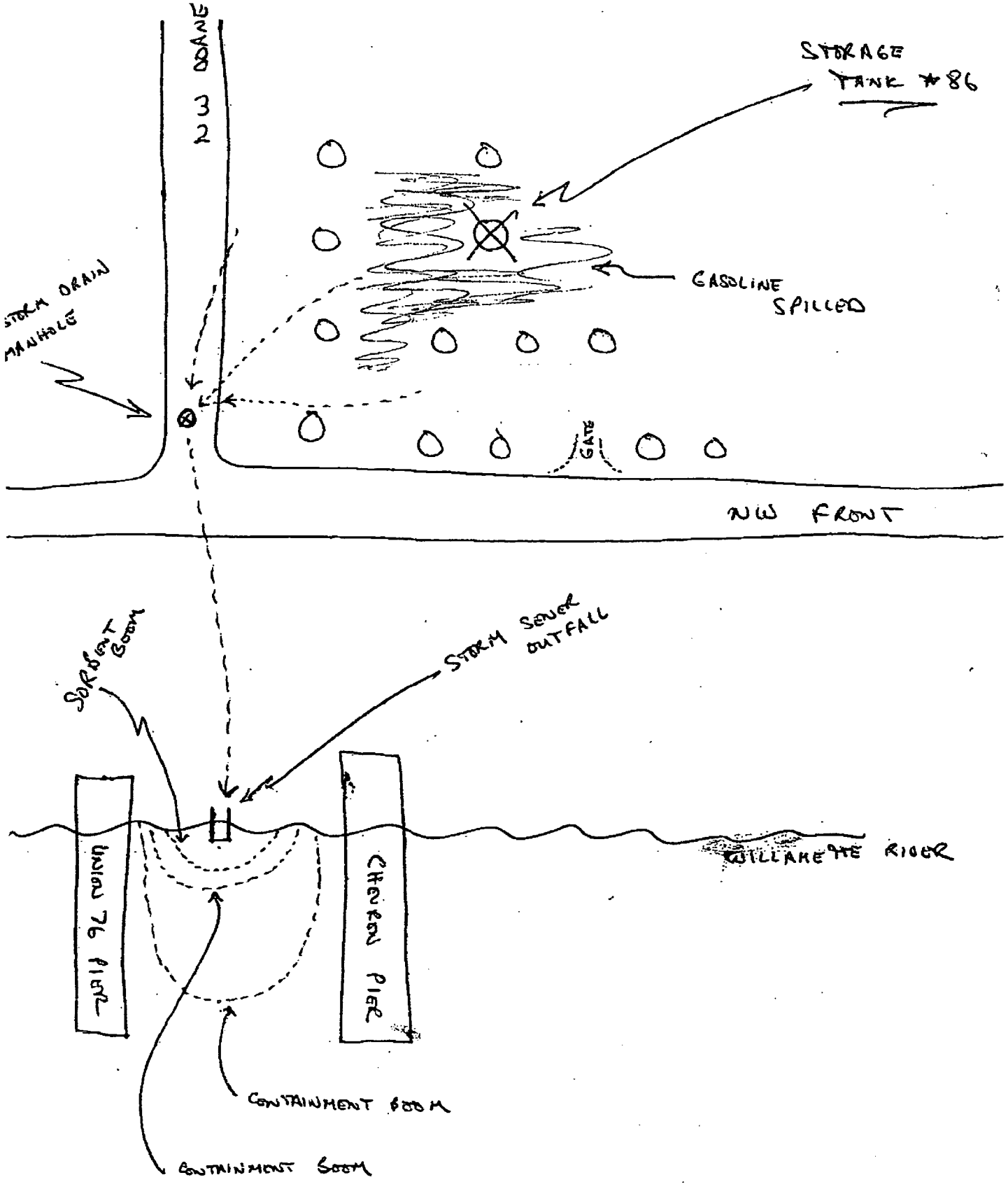
DEQ RESPONSE: PER ON SITE 9:00 AM; INTERVIEWED JOE WALDBURGER CHEVRON BULK FOREMAN, & C.P. LATTANZI CHEVRON MAINTENANCE FOREMAN. CHECKED STORM DRAIN OUTFALL TO WILLAMETTE RIVER; NO GASOLINE COMING THRU YET; SORBENT BOOM AND 2 CONTAINMENT BOOMS WERE PLACED. WESTERN ENVIRONMENTAL BOAT ON SCENE AS WAS A PORTLAND FIRE BOAT

GASOLINE ABSORPTION INTO GROUND WAS MINIMIZED BECAUSE OF HEAVY RAINS LAST COUPLE DAYS SATURATING THE GROUND. GASOLINE WAS FLOATING ON THE WATER AND WAS EASILY SKIMMED

SPILL APPEARS CONTAINED AND CLEAN UP IS IN PROGRESS. COAST GUARD & WILLAMETTE ENVI. SVCS. KEEPING WATCH ON RIVER, FIRE DEPT. SPREADING FOAM IN SPILL AREA OF TANK FARM & ON ALERT FOR FURTHER DANGERS.

NOTE CHEVRON WILL SEND A FULL REPORT ON SPILL TO DEQ!

DIAGRAM ATTACHED:


23 OOANE
STORAGE TANK #86
STORM DRAIN MANHOLE
GASOLINE SPILLED
GATE
NW FRONT
SORBENT BOOM
STORM SEWER OUTFALL
UNION 76 PIER
CHEVRON PIER
WILLAMETTE RIVER
CONTAINMENT BOOM
CONTAINMENT BOOM

SPILL REPORT

TCB SCC

REPORTING

Person reporting: Archie Mostad Date Reported: 3/14

Agency: Emergency Services Phone: Time Reported: 7:50 Am

Observer (if different): Joe Waldburger 221-7714 Phone Date Reported: 3/14

Address: Chevron USA Tank Farm Time Reported: 7:46 Am

NATURE OF THE SPILL

When: 7:15 Am

— Where did spill occur —

City - Portland Address or Location - 5531 NW Doane Ave Portland

County - Multnomah

Other Comments:

What spilled? gas

How much? unknown - but a lot

Other Comments by reporter/observer: In the main tank yard. Failure of 23,000 gallon tank. Contained.

Did the material enter public waters? ☐ Yes ☒ No

If yes, complete the following: Name of water body Length/width of sheen

If no, complete the following:

Is it likely that the material will reach public waters? ☒ Yes ☐ No

Name of water body threatened: Willamette R.

ACTION TAKEN OR PLANNED TO BE TAKEN

Who is responding? Fire Dept. on-scene on stnd-by

What cleanup efforts have been initiated?

Report taken by: Chris

Did you notify: Regional Office ☒ Yes ☐ No

Name: Mary Bright

Public Information ☐ Yes ☐ No

Name:

Notify EPA, Oregon Operations, if the spill threatens a downstream water supply.

cc: Regional Office
Laboratory, DEQ

Chevron U.S.A. Inc.
5531 N.W. Doane Avenue, Portland, OR 97210
Phone 221-7866

J. C. "Joe" Waldburger
Bulk Foreman
Willbridge Distribution Center

DEPARTMENT OF ENVIRONMENTAL QUALITY

OIL SPILL REPORT

T28
500

REPORTING

Person reporting: Jerry Harpan Date Reported: 6-7-79

Agency: Emergency Services Phone: Time Reported: 10:15 PM.

Observer: O.P. Lent 221-7800 221-7812 Phone Date Reported: 6-7-79

Address: Chevron USA Time Reported: 7:00 PM

NATURE OF THE SPILL

Where did the spill occur? Chevron USA, 5501 NW Front Ave. Portland
Tank cars loading, in-plant spill, at "tank rack"

What spilled? Emulsified Asphalt Paving

How much? 450 gallons

Other Comments by reporter/observer:

Did the material enter public waters? ☐ Yes ☒ No

If yes, complete the following: Name of water body Length/width of sheen

If no, complete the following:

Is it likely that the material will reach public waters? ☐ Yes ☒ No

Name of water body threatened:

ACTION TAKEN OR PLANNED TO BE TAKEN

Who is responding? Coast Gaurd notified by spiller. Not known if response generated

What cleanup efforts have been initiated? Most of it was cleaned-up on-site by the spiller. Some hardened, to be removed later as required

Report taken by: Chris

Did you notify: Regional Office ☒ Yes ☐ No

Name: 6/8/79 AM

Public Information ☐ Yes ☒ No

Name:

Dept. of Environmental Quality
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JUN 8 1979
NORTHWEST REGION

Notify EPA, Oregon Operations, if the spill threatens a downstream water supply.

cc: Regional Office
Laboratory, DEQ
EPA, Oregon Oprs.

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DEPARTMENT OF ENVIRONMENTAL QUALITY

OIL SPILL REPORT

REPORTING

Person reporting: Chief Oneil Date Reported: 3-9-79

Agency: USCG Phone: _____ Time Reported: 1204 PM

Observer: Roy Hoarn 221-7708 Date Reported: 3-9-79
Phone

Address: Chevron oil. Time Reported: 1157 AM

NATURE OF THE SPILL

Where did the spill occur? Chevron oil Docks

Source of spill? Bleeder Valve kicked open

What spilled? Black oil

How much? 2-5 gal.

Other Comments by reporter/observer: _____

Did the material enter public waters? ☒ Yes ☐ No

If yes, complete the following: Willamette R. _____
Name of water body Length/width of sheen

If no, complete the following:

Is it likely that the material will reach public waters? ☐ Yes ☐ No

Name of water body threatened: _____

ACTION TAKEN OR PLANNED TO BE TAKEN

Who is responding? USCG

What cleanup efforts have been initiated? cleaned up

Report taken by: DEF.

Did you notify: Regional Office ☐ Yes ☒ No

Name: _____

Public Information ☐ Yes ☒ No

Name: _____

Dept. of Environmental Quality
RECEIVED
MAR 9 1979
NORTHWEST REGION

Notify EPA, Oregon Operations, if the spill threatens a downstream water supply.

cc: Regional Office
Laboratory, DEQ
EPA, Oregon Oprs.

SPILL REPORT

REPORTING

Person reporting: Jerry Harpham Date Reported: 1-21-79

Agency: ESD Phone: Time Reported: 130PM

Observer: Jim McQueen 221-7808 Date Reported: 1-21-79
Phone

Address: Chevron Asphalt Time Reported: 125PM
Spill occured about 6PM 1-20-79

NATURE OF THE SPILL

Where did the spill occur? Chevron Asphalt.

Source of spill? Pipeline break

What spilled? PS-300 Heavy fuel oil

How much? 200 barrels

Other Comments by reporter/observer: all but about 100 gallons Contain
some may enter into sewer system.

Did the material enter public waters? ☐ Yes ☒ No

If yes, complete the following: _____
Name of water body Length/width of sheen

If no, complete the following:

Is it likely that the material will reach public waters? ☐ Yes ☒ No

Name of water body threatened: _____

ACTION TAKEN OR PLANNED TO BE TAKEN

Who is responding? none

What cleanup efforts have been initiated? Company is cleaning up.

Report taken by: DEQ

Did you notify: Regional Office ☐ Yes ☒ No

Name: _____

Public Information ☐ Yes ☒ No

Name: _____

Dept. of Environmental Quality
RECEIVED
JAN 26 1979
NORTHWEST REGION

Notify EPA, Oregon Operations, if the spill threatens a downstream water supply.

cc: Regional Office
Laboratory, DEQ
EPA, Oregon Oprs.

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RELEASE REPORT AND EVALUATION FORM Spill # 93-069

Part I. RELEASE INFORMATION

Type of Release: Motor Oil

DEQ Person Receiving Report: Jerry Wilson Phone: 6385 x238

Date Reported: 3/8/9 Time Reported: 1507 EMD #: 93-0374

EMD Staff Contact Jim Mazza

Reported By Company/Agency: UNOCAL Phone: 248-1552

Site Contact Company/Agency: Dick Parsons Gary Lefebvre Phone: 248-1542

Site Name: UNOCAL Terminal PO Box 76

Site Address: 5528 NW DOANE 97207

City, Zip Portland County Mult

Location Description (if no address):

Name, Quantity, and Physical State (gas, liquid, solid) of Substance Released
100 gal motor oil c loading tank car. leak in steam coils of tank car

How Release Occurred: Spilled on concrete slab at car loading facility. All contained Recovered 250 oil + water. Operator error. Contained on pad in sumps which go to oil water separator

Date of Release 3/8/93 Time of Release: 1430 PST

Media Affected: Soils Yes (No) Potential Groundwater Y (N) P Air Y (N) P

Sediments Y (N) P Surface Water (Name) Y (N) P

Release Stopped and Contained? (Y)/N Immediate Response Needed? Y (N)

Potential for Future Releases? Y (N) Explain: Possible but problem caused by operator

Responsible Party Name UNOCAL Phone:

Address/City/Zip

Owner/Operator Notified? (Y)/N Assumed Responsibility? (Y)/N
Contractor Hired? Y (N)

Contractor Name: Phone:

Field Representative: Phone:

Spill Report Requested? (Y)/N Date Required: 3/19/93 (attach)
Date Received: 3/18/93

Site Visit Conducted? Y (N) Date:

DEQ Staff Who Inspected Site

List Other Federal/State/Local Agencies Notified (N) and Responding (R)

DEQ Public Affairs Notified Y (N) Press Release Needed? Y (N)

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NARRATIVE SUMMARY OF RELEASE

Provide site description, explanation of how release occurred, status of remedial action if any, and justification for recommendation that further action or no further action is necessary. Prepare site map if referring release for further action, p.4)

Operator(s) was/were filling a rail tank car with motor lube oil. They noticed that the steam heating tubes for heating the rail car were leaking. Unocal employees were to pump out the rail car using the same equipment. As they pumped out oil, the dispense nozzle/valve was not closed. They spilled about 250 gallons. It was contained on the concrete slab, Unocal picked up 250 gal oil and water from slab and storm catch basins. Any remaining oil went to the Unocal oil/water separator.

PART II. RELEASE POSES NO SIGNIFICANT THREAT; NO FURTHER ACTION REQUIRED

X De minimis release

Gasoline or diesel fuel

____ <50 gallons to ground surface if no apparent threat to groundwater, surface water, humans, sensitive environments

Oil (does not include waste oil)

ALL CONTAINED IN SLOP OIL SYSTEM.

X <100 gallons to ground surface if there is no apparent threat to groundwater, surface water, humans, or sensitive environments

Other hazardous substances (includes waste oil)

____ <15 gallons to ground surface if there is no apparent threat to groundwater or surface water, humans or sensitive environment

____ Release by its nature rapidly dissipates

____ Release is permitted or otherwise authorized

____ Release is a FIFRA-registered pesticide, applied appropriately for intended use

____ Release has been cleaned up to protective level

____ Release otherwise requires no additonal investigation, removal, remedial action, or long-term environmental or institutional controls

From: G T Wilson 3/23/93
Evaluator's Signature Date

HS Oil Sewage AQ MISC

cc: Hazardous Materials Section
Regional Operations
Public Affairs
Air Quality
Water Quality
Hazardous Waste

Time Spent 4.6

Route Slip

Date 3/23/93

TO:	Name	Division/Section	Initial	Date
1.	~~Chuck Clinton~~			
2.	Loren Garner		[illegible]	4/12
3.	Lynn Berray			
4.				
5.				

	as requested		investigate		per conversation
	approval		justify		prepare reply
	comment		necessary action		return with more detail
	confer		initial and return		review and circulate
	for your information		note and file		signature

Contained in their slop oil system. Interesting though because spill was 100 gal, then somewhat less than 250 gal and finally reported as 2,955 gallons. Contact to Fagan

FROM Jerry Wilson Phone No. x238

Central Stores 97677

See Other Side

Recycled Paper

He said additional quantity had already drained into tanks on site and weren't visible to Mr Parsons. Unocal later determined accurate spill amount by tank gauges.

GTW

jule

Oregon

DEPARTMENT OF
ENVIRONMENTAL
QUALITY

NORTHWEST REGION

March 9, 1993

MR GARY LEFEBVRE
UNOCAL
PO BOX 76
PORTLAND OR 97207

RE: Spill-Multnomah County
Unocal
Spill No. 93-069

Dear Mr. LeFebvre:

On March 8, 1993, the Department received a report that a spill of motor oil had occurred at the Unocal facility at 5528 N.W. Doane in Portland. The information received indicates that your company has been identified as the responsible party. You are requested to continue all containment and cleanup actions possible to prevent the spread of the spill to public waters, groundwater, or soils beyond the original spill site. This site must be cleaned up to the lowest practicable level as required by Oregon Administrative Rules (OAR) 340-108-030 (copy attached).

In accordance with OAR 340-108-040, you are requested to document the actions taken and to submit a written spill report by March 19, 1993.

Failure to comply with all cleanup and containment requests and failure to submit a timely spill report are violations of the Department's spill rules. Violations of this nature may result in civil penalties up to $10,000 per violation per day.

The enclosed spill report outline is intended as a guide in preparation of the report. Not all information listed will apply in every case; however, it should help you determine if you have included the basic elements in your report.

1500 SW First Avenue
Suite 750
Portland, OR 97201-5884
(503) 229-5263
DEQ-1

Your cooperation is appreciated. If you have any questions regarding this request, please contact me at (503) 229-6433.

Sincerely,

Gerald T. Wilson
Environmental Specialist
Northwest Region

GTW:j
Enclosures: Spill report outline
OAR 340 Division 108

cc: Duane Smith, Bureau of Env. Services, City of Portland

Unocal Refining & Marketing Division
Unocal Corporation
5528 Northwest Doane Avenue, P.O. Box 76
Portland, Oregon 97207
Telephone (503) 248-1531

UNOCAL 76

March 16,1993

Mr. Gerald T. Wilson
Environmental Specialist
Oregon Department of Environmental Quality
Northwest Region
1500 SW First Avenue, Suite 750
Portland, OR 97201-5884

RE: Spill-Multnomah County
Unocal
Spill No. 93-069

Dear Mr. Wilson:

I am responding to your letter of March 9, 1993 to Unocals' Gary LeFebvre concerning our reported spill on March 8, 1993. The attached pages reflect the pertinent data you requested regarding this occurrence.

I am happy to report that the entire spill was contained and channeled for collection through our on-site systems, thus causing no environmental damage, to ground or water; And that we are fully satisfied the incident has been responsibly corrected.

If you have any questions or need further information, please call either Gary at 248-1552 or myself at 248-1533. Thank you.

Sincerely,

Jeff Fagan
Supervisor Lube Manufacturing

cc: Gary LeFebvre
Shawn Gilfillan
Dave Keith
Hank Johnson

SPILL NO. 93-069
SPILL-MULTNOMAH COUNTY
UNOCAL

INCIDENT DATE: MARCH 8, 1993

GENERAL INFORMATION

UNOCAL TERMINAL
5528 NW DOANE AVE
P.O. BOX 76
PORTLAND, OR 97207

SPILL REVIEWED BY: JEFF FAGAN
TITLE: SUPERVISOR LUBE MANUFACTURING
PHONE: (503) 248-1533

UNOCAL PERSON RESPONSIBLE
FOR ENVIRONMENTAL COMPLIANCE: GARY LEFEBVRE
PHONE: (503) 248-1552

SPILL INFORMATION, INITIAL RESPONSE AND PUBLIC AGENCIES NOTIFIED

Spill was first reported by two of our bulk product loaders to their supervisor, Dick Parsons at approximately 2:30 P.M. on March 8, 1993. I (Jeff Fagan) was notified immediately thereafter by Mr. Parsons who then called the Oregon Department of Environmental Quality and talked to Mr. Gerald T. Wilson. Mr. Parsons was initially the on scene contact.

CAUSE OF RELEASE / MATERIAL RELEASED

SEE ATTACHMENT A. (MSDS also attached)

IMPACTS

NO MEDIA WAS IMPACTED, NO INJURIES, NO WILDLIFE IMPACTS.

SPILL QUANTITY

2955 gallons.

PUBLIC AGENCIES NOTIFIED / RESPONSE

Notified the Oregon Department of Environmental Quality: Gerald T. Wilson. No agencies responded to the incident.

CLEAN UP

Unocal personnel were assigned, wearing the proper Personal Protective Equipment, to squeegee and steam clean the balance of the product not gravity drained from the concrete slab, into our Slop Oil and Water system. The area was cleaned to its' original state and the area deemed clean per visual inspection at 6:00 P.M. on March 8, 1993.

The Slop Oil and Water was collected in its' entirety and reincorporated into bunker fuel per our Waste Reduction Plan, section 4.1 (see attachment B).

SITE SAMPLING

As the entire spill was contained on concrete, routed through our Slop Oil and Water system and collected, no sampling was deemed necessary.

SPILL PREVENTION

The Unocal Portland Terminal does have a current SPCC plan in place. In addition, our Emergency Response Guidebook lists in detail the procedure for dealing with a spill on the concrete slabs around the truck and rail loading/unloading areas (see attachment C, 2 pages).

To avoid future incidents of this nature, we are adding to our procedures for loading railcars, a step to test the steam coil system for decay prior to loading. We have also reviewed the current loading procedures for compliance.

ATTACHMENT A

On March 8,1993 bulk loaders Mike Eaton and Mike Jaramillo were loading Unocal Ramar 20W-40 (Railroad Engine Oil) into Railcar GN10001. Mr. Eaton was supervising the training of Mr. Jaramillo on the bulk railcar loading rack.

At approximately 2:30 P.M., after filling about 1/3 of the railcar with product, a leak was detected coming from the steam coil fitting at the bottom of the car. The pump was shut down and the wheel valve closed at the tank, the loading arm was left in place atop the loading dome with the valve open. The leak from the steam coil fitting was flowing at approximately 1 gallon per minute; And after consultation with the warehouse foreman, they decided to pump the product back out of the car into the tank, and send the car off for repair. At that point Mr. Eaton proceeded to the bottom of the car and hooked up the hose for off-loading, while Mr. Jaramillo went up on the loading rack and removed the spout from the dome of the car. The flow valve which controls the loading arm was overlooked and left open; Since the valve was closed at the tank, no product flowed from the spout.

When all the proper valves and hoses were on line, the pump-off began. The car was visually inspected, and no problems were seen. The two employees then went back to the tank to inspect the gauge to assure that the product was flowing back into the tank. As all seemed normal, both went on to other duties while the railcar was pumping. 8 to 10 minutes later, a contractors' employee discovered product flowing from the loading rack and immediately advised Mr. Eaton and Jaramillo. Product was flowing from the open loading arm, which was in the upright and locked position with a bucket attached to collect drips. The bucket was overflowing at a much less rate than the system was pumping, as the majority of the product was flowing into the tank. The valve at the loading arm was closed and pumping stopped, thus ceasing the spill.

An evaluation of the spill was immediately made. All of the product had been contained on the concrete pad beneath the rail loading rack, and directed to our on-site collection areas. The warehouse foreman was immediately notified and in turn, the supervisor of Lube Manufacturing and the Environmental and Safety supervisor. The Oregon Department of Environmental Quality was immediately notified of the incident by the warehouse foreman.

Attachment "B"

4.0 MAJOR WASTE STREAM SOURCE IDENTIFICATION

The following sections describe waste management approaches for the major waste streams identified in this report and highlight the formal waste minimization activities. The waste management approaches include a description of the processes that generate the waste and the handling procedures for the waste. The waste management approaches apply to the 1991 baseline reporting year.

4.1 SLOP OIL AND WATER

Slop oil and water accounted for 149,940 pounds of waste generated at the Portland Terminal in 1991. The waste consist of the skimmed oil and water removed from the process or storm water separators. The oil which resulted in slop oil and water formation entered the separators through the terminal sewer or storm water system.

Typical sources for oil entering the storm water and process waste water systems include laboratory drains, lube oil packaging line equipment, tank water drains (from lighter hydrocarbon products, i.e. gasoline), incidental product leaks and spills from these tank operations which drain into the process area drainage system and flow to the oil/water separator. These incidental leaks and spills can occur around loading/unloading rack areas, and transfer pump areas. Other sources are pad wash downs and black oil pumping equipment.

Oil recovered from this process is pumped into tank 36 and blended as industrial fuel oil where it is sold to British Petroleum for bunkering ships.

4.2 LINE FLUSH WASTE OIL

During 1991 approximately 58,800 pounds of line flush waste oil were generated at the Portland Terminal.

The majority of the waste oil is generated at the lube oil loading/unloading area. Hoses and pipelines used for transfer operations (e.g., rail car to tank transfers) must be routinely flushed. They are

"attachment C"

.2 SPILLS AT LOADING RACKS

ote: Only personnel who are properly trained and equipped with ppropriate personal protective equipment (PPE) may enter an area that ay contain a vapor cloud resulting from spilled product. Do not ttempt these procedures if you are not properly trained and equipped o perform them, or are uncertain of the need for PPE. Refer to ection 17 for guidance on selecting PPE.

EVER ATTEMPT TO ENTER AN AREA ALONE IN AN EMERGENCY SITUATION.

.2.1 Refined Product Loading Rack

1. Shut off the source of the spill and make sure that other loading operations cease.
2. Do not allow drivers with vehicles in the area to start their engines, and keep vehicles out of the area.
3. Do not walk or drive through the spill or through a vapor cloud.
4. Be prepared to activate the fire protection system in case of fire; fire alarm buttons are located on the tank farm retaining wall, and at the truck end of each loading rack.
5. Consider the need for air monitoring: for selection of PPE; test for flammable atmosphere; benzene exposure monitoring. See Section 17 for more information.
6. Notify the Terminal Manager and ask whether you can proceed with the next step.
7. Wash down the vehicle and the area, directing the runoff into the load rack drain, which drains to the terminal containment system.
8. Before resuming product loading, consult with the Maintenance Foreman to determine whether the spill was caused by a defective valve or a leak in the piping to prevent another spill.
9. Contact the Incident Commander for permission to resume operations, and to arrange for waste disposal, if applicable.

.2.2 Lube Oil Loading Rack

1. Stop the pump and close the discharge valve.
2. Remove the downspout and close the compartment hatch.

"attachment C"

3. Do not walk or drive through spilled material.

4. Notify the Head Operator and request assistance if needed. If necessary, the Supervisor of Operations will be notified.

5. Use a squeegee to direct spilled product into the drain at the loading rack, which drains to the terminal containment system.

6. Wipe down the truck, and deposit oily rags in designated cans.

7. Lower the product level in the tank or compartment if the spill resulted from overfilling.

8. Before resuming product loading, consult with the Maintenance Foreman to determine whether the spill was caused by a defective valve or a leak in the piping to prevent another spill.

9. Contact the Incident Commander for permission to resume operations, and to arrange for waste disposal, if applicable.

.2.3 <u>Railroad Tank Car Loading/Unloading Area</u>

1. Turn the product transfer pump off.

2. Close the fill valve on the tank car and/or the tank farm piping valve and the immediate downstream valve to check any backflow.

3. Notify the Head Operator and request assistance if needed. If necessary, notify the Supervisor of Operations.

4. Consider the need to monitor for H_2S if the spilled material is a lube oil additive.

5. Confine the spilled material in as small an area as possible by diking with booms or other diking material.

6. Before resuming product loading, consult with the Maintenance Foreman to determine whether the spill was caused by a defective valve or a leak in the piping to prevent another spill.

7. Contact the Incident Commander for permission to resume operations, and to arrange for waste disposal, if applicable.

If the railroad tank car fill valve cannot be closed and is still leaking, use the emergency plug located in the loading area.

.2.4 Fuel Oil Loading Rack

1. Stop the pump and close the discharge valve.

MATERIAL SAFETY DATA SHEET

UNOCAL 76

1201 West 5th Street
Los Angeles, California 90017

Product Name: UNOCAL RAMAR ENGINE OIL 20W/40
Product Code No: 03762

Issue Date: 05/31/91
Status: FINAL

Responsible Party:

UNOCAL REFINING & MARKETING DIVISION
UNION OIL COMPANY OF CALIFORNIA
1201 WEST 5TH STREET
LOS ANGELES, CALIFORNIA 90017

CONTACT FOR FURTHER INFORMATION:
MSDS COORDINATOR 213-977-7589

Transportation Emergencies:
CHEMTREC
(800) 424-9300 Cont. U.S.
(202) 483-7616 (Collect)
from Alaska & Hawaii
Health Emergencies:
LOS ANGELES POISON
CONTROL CENTER (24 hrs)
(800) 356-3129

PRODUCT IDENTIFICATION

PRODUCT NAME: UNOCAL RAMAR ENGINE OIL 20W/40

GENERIC NAME: ENGINE OIL

CHEMICAL FAMILY: PETROLEUM HYDROCARBON

DOT PROPER SHIPPING NAME: NOT APPLICABLE

ID NUMBER: NONE

DOT HAZARD CLASSIFICATION: NOT REGULATED

PRECAUTIONARY WARNING

WARNING
MAY CAUSE ALLERGIC SKIN REACTION. USED MOTOR OIL IS A POSSIBLE SKIN CANCER HAZARD BASED ON ANIMAL DATA. LIQUID OR VAPOR MAY IGNITE. KEEP AWAY FROM ALL SOURCES OF IGNITION. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, GRIND OR DRILL ON OR NEAR CONTAINER OR EXPOSE TO ANY SOURCE OF IGNITION. "EMPTY" CONTAINER RETAINS RESIDUE (LIQUID AND/OR VAPOR) AND MAY EXPLODE IN HEAT OF A FIRE. AVOID PROLONGED OR REPEATED CONTACT WITH SKIN. WASH THOROUGHLY AFTER HANDLING.

SECTION I - COMPONENTS	PERCENT	EXPOSURE LIMIT	UNITS	AGENCY	TYPE
HAZARDOUS COMPONENTS					
OIL MIST, IF GENERATED CAS #: 8012-95-1		5.000	mg/m3	ACGIH	TWA
		10.000	mg/m3	ACGIH	STEL
		5.000	mg/m3	MSHA	TWA
		5.000	mg/m3	OSHA	TWA
		5.000	mg/m3	CAL OSHA	TWA
TRADE SECRET CAS #: PROPRIETARY	10.400 - 13.400	NOT ESTABLISHED			
OTHER COMPONENTS					

UNION OIL CO.

Product Name: UNOCAL RAMAR ENGINE OIL 20W/40 Page 2
Product Code No: 03762 Issue Date: 05/31/91
Status: FINAL

SECTION I - COMPONENTS	PERCENT	EXPOSURE LIMIT	UNITS	AGENCY	TYPE
SOLVENT DEWAXED DISTILLATE, HEAVY PARAFFIN CAS #: 64742-65-0	80.000 - 82.000	(SEE OIL MIST EXPOSURE LIMIT)			
TRADE SECRET CAS #: PROPRIETARY	6.000 - 7.000			NOT ESTABLISHED	
CHLORINATED PARAFFINS CAS #: NONE	.6			NOT ESTABLISHED	

THIS PRODUCT CONTAINS THE FOLLOWING CHEMICALS SUBJECT TO THE REPORTING REQUIREMENTS OF SARA 313 AND 40 CFR 372: CAS NUMBER WEIGHT %

--NONE--

SECTION II - EMERGENCY AND FIRST AID PROCEDURES

EMERGENCY
Have physician call LOS ANGELES POISON CONTROL CENTER (24 hrs) (800) 356-3129

EYE CONTACT:

IF IRRITATION OR REDNESS DEVELOPS, MOVE VICTIM AWAY FROM EXPOSURE AND INTO FRESH AIR. FLUSH EYES WITH CLEAN WATER. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION.

SKIN CONTACT:

WIPE MATERIAL FROM SKIN AND REMOVE CONTAMINATED SHOES AND CLOTHING. CLEANSE AFFECTED AREA(S) THOROUGHLY BY WASHING WITH MILD SOAP AND WATER AND, IF NECESSARY, A WATERLESS SKIN CLEANSER. IF IRRITATION OR REDNESS DEVELOPS AND PERSISTS, SEEK MEDICAL ATTENTION.

INHALATION (BREATHING):

IF RESPIRATORY SYMPTOMS DEVELOP, MOVE VICTIM AWAY FROM SOURCE OF EXPOSURE AND INTO FRESH AIR. IF SYMPTOMS PERSIST, SEEK MEDICAL ATTENTION. IF VICTIM IS NOT BREATHING, IMMEDIATELY BEGIN ARTIFICIAL RESPIRATION. IF BREATHING DIFFICULTIES DEVELOP, OXYGEN SHOULD BE ADMINISTERED BY QUALIFIED PERSONNEL. SEEK IMMEDIATE MEDICAL ATTENTION.

INGESTION (SWALLOWING):

NO FIRST AID IS NORMALLY REQUIRED; HOWEVER, IF SWALLOWED, AND SYMPTOMS DEVELOP, SEEK MEDICAL ATTENTION.

COMMENTS:

IF AN ALLERGIC REACTION TO THIS MATERIAL DEVELOPS, AVOID ANY FURTHER CONTACT.

SECTION III - HEALTH HAZARDS/ROUTES OF ENTRY

EYE CONTACT:

THIS MATERIAL MAY CAUSE MILD EYE IRRITATION. DIRECT CONTACT WITH THE LIQUID OR EXPOSURE TO MISTS MAY CAUSE STINGING, TEARING AND REDNESS.

SKIN CONTACT:

THIS MATERIAL MAY CAUSE MILD SKIN IRRITATION. PROLONGED OR REPEATED CONTACT OR EXPOSURE TO MISTS MAY CAUSE REDNESS, BURNING, AND DRYING AND CRACKING OF THE SKIN. REPEATED CONTACT MAY CAUSE AN ALLERGIC SKIN REACTION. NO HARMFUL EFFECTS ARE EXPECTED FROM SKIN ABSORPTION OF THIS MATERIAL. PERSONS WITH PRE-EXISTING SKIN DISORDERS MAY BE MORE SUSCEPTIBLE TO THE EFFECTS OF THIS MATERIAL.

UNION OIL CO.

Product Name: UNOCAL RAMAR ENGINE OIL 20W/40
Product Code No: 03762

Issue Date: 05/31/91
Status: FINAL

SECTION III - HEALTH HAZARDS/ROUTES OF ENTRY

INHALATION (BREATHING):

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, BREATHING HIGH CONCENTRATIONS OF MISTS MAY CAUSE IRRITATION OF THE NOSE AND THROAT.

INGESTION (SWALLOWING):

WHILE THIS MATERIAL HAS A LOW DEGREE OF TOXICITY, INGESTION OF EXCESSIVE QUANTITIES MAY CAUSE IRRITATION OF THE DIGESTIVE TRACT.

COMMENTS:

CHLORINATED PARAFFIN, A COMPONENT OF THIS MATERIAL, IS A POSSIBLE HUMAN CANCER HAZARD BASED ON TESTS WITH LABORATORY ANIMALS AND HAS BEEN IDENTIFIED AS A CARCINOGEN BY NTP. USED MOTOR OIL IS A POSSIBLE SKIN CANCER HAZARD BASED ON TESTS IN LABORATORY ANIMALS AND HAS BEEN IDENTIFIED AS A POSSIBLE CARCINOGEN BY IARC.

SECTION IV - SPECIAL PROTECTION INFORMATION

VENTILATION:

IF CURRENT VENTILATION PRACTICES ARE NOT ADEQUATE TO MAINTAIN AIRBORNE CONCENTRATIONS BELOW THE ESTABLISHED EXPOSURE LIMITS (SEE SECTION I), ADDITIONAL VENTILATION OR EXHAUST SYSTEMS MAY BE REQUIRED.

RESPIRATORY PROTECTION:

IF AIRBORNE CONCENTRATIONS EXCEED ESTABLISHED EXPOSURE LIMITS (SEE SECTION I), A SUITABLE FILTER TYPE RESPIRATOR SHOULD BE WORN.

PROTECTIVE GLOVES:

THE USE OF GLOVES IMPERMEABLE TO THE SPECIFIC MATERIAL HANDLED IS ADVISED TO PREVENT SKIN CONTACT AND POSSIBLE IRRITATION.

EYE PROTECTION:

APPROVED EYE PROTECTION TO SAFEGUARD AGAINST POTENTIAL EYE CONTACT, IRRITATION OR INJURY IS RECOMMENDED.

OTHER PROTECTIVE EQUIPMENT:

EYE WASH AND QUICK DRENCH SHOWER FACILITIES SHOULD BE AVAILABLE IN THE WORK AREA. THOROUGHLY CLEAN SHOES AND WASH CONTAMINATED CLOTHING BEFORE REUSE. IT IS RECOMMENDED THAT AN IMPERVIOUS APRON BE WORN.

SECTION V - REACTIVITY DATA

REACTIVITY:

STABLE UNDER NORMAL CONDITIONS OF STORAGE AND HANDLING.

CONDITIONS AFFECTING REACTIVITY:

EXTENDED EXPOSURE TO HIGH TEMPERATURES MAY CAUSE DECOMPOSITION.

INCOMPATIBLE MATERIALS:

AVOID CONTACT WITH STRONG OXIDIZING AGENTS.

UNION OIL CO.

Product Name: UNOCAL RAMAR ENGINE OIL 20W/40
Product Code No: 03762

Issue Date: 05/31/91
Status: FINAL

SECTION V - REACTIVITY DATA

HAZARDOUS DECOMPOSITION PRODUCTS:

COMBUSTION MAY YIELD MAJOR AMOUNTS OF OXIDES OF CARBON AND MINOR AMOUNTS OF OXIDES OF SULFUR AND NITROGEN. TOXIC CHLORINE COMPOUNDS MAY ALSO BE FORMED.

HAZARDOUS POLYMERIZATION:

WILL NOT OCCUR

POLYMERIZATION CONDITIONS TO AVOID:

NONE KNOWN

SECTION VI - SPILL AND LEAK PROCEDURES ***HIGHWAY OR RAILWAY SPILLS***
Call CHEMTREC (800) 424-9300 Cont. U.S.
(Collect) (202) 483-7616 from Alaska & Hawaii

PRECAUTIONS IN CASE OF RELEASE OR SPILL:

MAY IGNITE. KEEP ALL SOURCES OF IGNITION AWAY FROM SPILL/RELEASE. STAY UPWIND AND AWAY FROM SPILL/RELEASE. ISOLATE HAZARD AREA AND LIMIT ENTRY TO AUTHORIZED PERSONNEL. STOP SPILL/RELEASE IF IT CAN BE DONE WITHOUT RISK. WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT (SEE SECTION IV). PREVENT SPILLED MATERIAL FROM ENTERING SEWERS, STORM DRAINS, OTHER UNAUTHORIZED TREATMENT DRAINAGE SYSTEMS AND NATURAL WATERWAYS. DIKE FAR AHEAD OF SPILL FOR LATER RECOVERY OR DISPOSAL. SPILLED MATERIAL MAY BE ABSORBED INTO AN APPROPRIATE ABSORBENT MATERIAL. NOTIFY FIRE AUTHORITIES AND APPROPRIATE FEDERAL, STATE AND LOCAL AGENCIES. IMMEDIATE CLEANUP OF ANY SPILL IS RECOMMENDED. IF SPILL OF ANY AMOUNT IS MADE INTO OR UPON U.S. NAVIGABLE WATERS, THE CONTIGUOUS ZONE, OR ADJOINING SHORELINES, NOTIFY THE NATIONAL RESPONSE CENTER (PHONE NUMBER 800-424-8802).

WASTE DISPOSAL METHOD:

DISPOSE OF PRODUCT IN ACCORDANCE WITH LOCAL, COUNTY, STATE, AND FEDERAL REGULATIONS.

SECTION VII - STORAGE AND SPECIAL PRECAUTIONS

HANDLING AND STORAGE PRECAUTIONS:

USE AND STORE THIS MATERIAL IN COOL, DRY, WELL VENTILATED AREAS AWAY FROM HEAT AND ALL SOURCES OF IGNITION. KEEP CONTAINER(S) CLOSED. STORE ONLY IN APPROVED CONTAINERS. KEEP AWAY FROM ANY INCOMPATIBLE MATERIALS (SEE SECTION V). PROTECT CONTAINER(S) AGAINST PHYSICAL DAMAGE. DO NOT ENTER CONFINED SPACES SUCH AS TANKS OR PITS WITHOUT FOLLOWING PROPER ENTRY PROCEDURES SUCH AS ASTM D-4276. THE USE OF RESPIRATORY PROTECTION IS ADVISED WHEN CONCENTRATIONS EXCEED ANY ESTABLISHED EXPOSURE LIMITS (SEE SECTIONS I AND IV). WASH THOROUGHLY AFTER HANDLING. DO NOT WEAR CONTAMINATED CLOTHING OR SHOES. USE GOOD PERSONAL HYGIENE PRACTICE. "EMPTY" CONTAINERS RETAIN RESIDUE (LIQUID AND/OR VAPOR) AND CAN BE DANGEROUS. DO NOT PRESSURIZE, CUT, WELD, BRAZE, SOLDER, DRILL, GRIND OR EXPOSE SUCH CONTAINERS TO HEAT, FLAME, SPARKS OR OTHER SOURCES OF IGNITION; THEY MAY EXPLODE AND CAUSE INJURY OR DEATH. "EMPTY" DRUMS SHOULD BE COMPLETELY DRAINED, PROPERLY BUNGED AND PROMPTLY SHIPPED TO THE SUPPLIER OR A DRUM RECONDITIONER. ALL OTHER CONTAINERS SHOULD BE DISPOSED OF IN AN ENVIRONMENTALLY SAFE MANNER AND IN ACCORDANCE WITH GOVERNMENTAL REGULATIONS. BEFORE WORKING ON OR IN TANKS WHICH CONTAIN OR HAVE CONTAINED THIS PRODUCT, REFER TO OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS, ANSI Z49.1, AND OTHER GOVERNMENTAL AND INDUSTRIAL REFERENCES PERTAINING TO CLEANING, REPAIRING, WELDING, OR OTHER CONTEMPLATED OPERATIONS.

UNION OIL CO.

Product Name: UNOCAL RAMAR ENGINE OIL 20W/40
Product Code No: 03762

Issue Date: 05/31/91
Status: FINAL

SECTION VIII - FIRE AND EXPLOSION HAZARD DATA

			HAZARD RANKING	
NFPA	HEALTH HAZARD:	1	0 = LEAST	FLASH POINT
HAZARD	FLAMMABILITY:	1	1 = SLIGHT	
CLASS	REACTIVITY:	0	2 = MODERATE	421 F (COC)
	OTHER:		3 = HIGH	216 C
			4 = EXTREME	

EXTINGUISHING MEDIA:

DRY CHEMICAL, CARBON DIOXIDE, HALON, FOAM OR WATER SPRAY IS RECOMMENDED.

UNUSUAL FIRE & EXPLOSION HAZARDS:

THIS MATERIAL MAY BURN, BUT WILL NOT IGNITE READILY. IF CONTAINER IS NOT PROPERLY COOLED, IT MAY EXPLODE IN THE HEAT OF A FIRE. VAPORS ARE HEAVIER THAN AIR AND MAY ACCUMULATE IN LOW AREAS.

SPECIAL FIRE FIGHTING PROCEDURES:

WEAR APPROPRIATE PROTECTIVE EQUIPMENT INCLUDING RESPIRATORY PROTECTION AS CONDITIONS WARRANT (SEE SECTION IV). STOP SPILL/RELEASE IF IT CAN BE DONE WITHOUT RISK. MOVE UNDAMAGED CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. WATER SPRAY MAY BE USEFUL IN MINIMIZING OR DISPERSING VAPORS AND COOLING EQUIPMENT EXPOSED TO HEAT AND FLAME. AVOID SPREADING BURNING LIQUID WITH WATER USED FOR COOLING PURPOSES.

SECTION IX - PHYSICAL DATA

***UNLESS OTHERWISE NOTED, VALUES ARE AT 20 C/68 F AND 760 mm Hg/1 atm.

APPROX BOILING POINT	(AIR = 1) VAPOR DENSITY	(N-BUTYL ACETATE = 1) EVAPORATION RATE	% VOLATILE
>600F / 316C	>1	<1	NEGLIGIBLE

% SOLUBILITY IN WATER

NEGLIGIBLE

SPECIFIC GRAVITY

0.90 @ 15C

APPEARANCE

DARK AMBER LIQUID

ODOR

CHARACTERISTIC PETROLEUM

VISCOSITY

139 cSt @ 40C

SECTION X - DOCUMENTARY INFORMATION

ISSUE DATE: 05/31/91 PRODUCT CODE NO. 03762

PREV. DATE: 09/07/90 PREV. PROD. CODE NO. NONE

MSDS NO: NONE PREV. MSDS NO: NONE

UNION OIL CO.

Product Name: UNOCAL RAMAR ENGINE OIL 20W/40
Product Code No: 03762

Issue Date: 05/31/91
Status: FINAL

SECTION X - DOCUMENTARY INFORMATION

DISCLAIMER OF EXPRESSED AND IMPLIED WARRANTIES

The information in this document is believed to be correct as of the date issued. HOWEVER, NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PARTICULAR PURPOSE, OR ANY OTHER WARRANTY IS EXPRESSED OR IS TO BE IMPLIED REGARDING THE ACCURACY OR COMPLETENESS OF THIS INFORMATION, THE RESULTS TO BE OBTAINED FROM THE USE OF THIS INFORMATION OR THE PRODUCT, THE SAFETY OF THIS PRODUCT, OR THE HAZARDS RELATED TO ITS USE. This information and product are furnished on the condition that the person receiving them shall make his own determination as to the suitability of the product for his particular purpose and on the condition that he assume the risk of his use thereof.

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DEQ EMERGENCY RESPONSE FORM

Jim Plazza 370-7549

NORTHWEST REGION SPILL # I90-13

PERSON RECEIVING REPORT

NAME: Loren Garner

PHONE NO.: 229-6142

WHEN RECEIVED

DATE: 9/13/90 TIME: 11:30

EMD INCIDENT NO. 90-1286
(If no EMD contact, see REVERSE)

PERSON REPORTING SPILL

NAME: Mike Daily

COMPANY/AGENCY: Unocal

PHONE NO.: (206) 254-4317

ON SCENE CONTACT PERSON:

NAME:

COMPANY/AGENCY:

PHONE NO.:

WHERE/WHEN SPILL OCCURRED

LOCATION: Unocal Loading Rack
5528 NW Doane
Portland

COUNTY: Mult

DATE: 9/13/90 TIME: PM

MATERIAL(S) DESCRIPTION AND QUANTITY

10 gal gasoline

POTENTIAL FOR FURTHER SPILLAGE? Y (N)

IF YES, DESCRIBE:

___ AQ ___ RCRA ___ UST ___ WQ
___ NON-RCRA HW

THREAT TO PUBLIC WATERS? Y (N)

IF YES, DESCRIBE:

THREAT TO PUBLIC SAFETY Y (N)

IF YES, DESCRIBE:

HOW SPILL OCCURRED

Valve failure during loading

RESPONSE ACTION INITIATED:

1. IS SITE SECURED FOR SAFETY? (Y) N
   BY WHOM Unocal
2. CONTAINMENT STEPS TAKEN — Captured in storm water spill containment tank (Y) N
3. SPILLER NOTIFIED X ___
   ASSUMED CLEANUP RESPONS. X ___
   CONTACT NAME & NO.
4. CLEANUP CREW AND EQUIPMENT ON SCENE (Y) N
   IF NOT, EXPECTED ARRIVAL
5. OTHER PUBLIC AGENCIES RESPONDING
   IF NO POLICE OR FIRE, SEE REVERSE
   None

6. NOTIFICATION(S): None Needed

7. IS A PUBLIC ANNOUNCEMENT NEEDED? Y (N)

8. SITE VISIT CONDUCTED? Y (N)

ACTION TAKEN:

pumped to treatment system for recovery. Not a reportable spill, but still properly handled.

No further Action Needed.

LGS

GO303 (1/88)
cc: Hazardous Materials Section
Regional Operations
Public Affairs
Hazardous Waste Section (HW Related)
Water Quality (WQ Related)
Air Quality (AQ Related)

Spent 20 min

COPPOR0002616

SPILL REPORTS PROCEDURE

If a spill call comes directly into a DEQ office, call Emergency Management Division to alert them to the spill: 378-4124, off-hours 1-800-452-0311.

IF NO POLICE OR FIRE RESPONDED, DEQ MUST FILE A SPILL REPORT WITH STATE FIRE MARSHALL THROUGH HAZARDOUS MATERIALS SECTION.

U.S. COAST GUARD - 240-9300

Report all spills into Willamette River below Willamette Falls, and all spills into Columbia River below Bonneville Dam. U.S.C.G. should be the primary responder in these areas.

OREGON DEPARTMENT OF FISH AND WILDLIFE

All spills which might affect fish or wildlife should be called to ODFW. If not in the office, call the regional office closest to the spill.

Gregory Robart - 229-6959

OREGON STATE HEALTH DIVISION - 229-5792 After Hours - 229-5599

Any spill with public health impacts such as a gas release.

Call 229-5792 and indicate you have a spill and need Health Division assistance.

Drinking Water Program

Call whenever a spill might affect a public drinking water intake.

Dave Leland - 229-6307
John Huffman - 229-6309
Jim Boydston - 229-6302

Call Shellfish Protection program when raw or partially treated sewage reaches a bay or estuary.

Bruce Arnold - 229-6269

MULTNOMAH COUNTY HEALTH DEPARTMENT

Call if there may be potential public health impacts in Multnomah County (sewage bypass to Willamette in summer, gas release, etc.)

Dr. Gary Oxman - 248-3674
Art Bloom - 248-3400

OREGON POISON CONTROL CENTER - 225-8968

Call Poison Control for any information about toxic human affects and whenever public health is potentially affected by toxics.

RP1233 (NWR) 1/88

STATE OF OREGON

DEPARTMENT OF ENVIRONMENTAL QUALITY — INTEROFFICE MEMO

TO: Manager, Site Assessment Section
Environmental Cleanup Division

DATE: 9/14/90

FROM: LGG through supervisor, reg. mgr., or branch manager

SUBJECT: Notification of Hazardous Substance Release

Location of Release Unocal Terminal

Party Responsible for Release Unocal

Facility/Property Owner Unocal

Date of Release 9/12/90 EMD No. 90-1286 Reg. No. —

Substance Released gasoline Quantity 10 gal

I have reviewed the attached information on the above reported release and have determined that:

Validate Information

___ The information on the release is invalid; no further action needed.

X The information is valid.

Confirm Release

___ A release has occurred, but not of a hazardous substance.

X A release of a hazardous substance has been confirmed through ~~written report~~ verbal or site inspection by DEQ/other agency.

___ Other releases are known or suspected.

Evaluate Cleanup

___ No remedial action has occurred.

X Remedial action has occurred and consisted of:

___ Cleanup to no visible sheen or odor; no sample taken.

___ Cleanup to background and sample results have been received and reviewed.

___ Cleanup to level protective of human health and environment (however, not to background) and sample results have been received and reviewed.

X Cleanup occurred, but no sampling was done.

___ Partial cleanup occurred and more work is needed.

Assess Impact

X No public health or environmental impacts remain or have the potential to occur because:

X Cleanup satisfactory. (Cleaned up to background or some trace soil contamination may remain.)

X Substances released dissipate quickly in the environment to harmless concentration levels.

___ Remote location and small quantity released.

___ No waterways near.

___ No groundwater impact likely.

___ Other

Captured by containment system - residual evaporated -

___ Potential for health or environmental impact remains due to:
- ___ Surface water impact occurred and users are nearby.
- ___ Groundwater impact is known or likely.
- ___ Surface water impact and wildlife nearby.
- ___ Location not remote and potential exists for direct exposure.

___ Other _____

Site Visit

___ A site visit was conducted by DEQ.
___ A site visit was conducted by another public official.
X No site visit occurred.

Other Regulatory Actions

X Site has DEQ permit or approval (AQ, WQ, SW or HW).
___ Site has had no prior DEQ involvement.
___ Other releases have occurred and have been investigated by DEQ.
___ EPA has had involvement on current or past releases.

Further Action Needed

___ Additional documentation (e.g., sampling results).
___ Additional cleanup (to background, matrix levels).
___ Additional review of site history or data, including other releases.
___ Additional evaluation of health, welfare or environmental impacts.
___ Additional information on extent of release.
___ Map or sketch of release area.
X None at this time.

Further Assessment

___ Further assessment is recommended for this release.
X Further assessment is not recommended.

NOTE: Attach a copy of the supporting information that documents the release (e.g., lab report, letter from facility manager, DEQ memo). Also, submit a map or illustration that shows where on the site the release occurred or where samples were taken.

SM2177
(5/25/89)
cc: _____

RELEASE REPORT AND EVALUATION FORM

Spill # E91-08

Part I. RELEASE INFORMATION

Type of Release: Unleaded Gasoline

DEQ Person Receiving Report: Andree Pollock Phone: 229-6923

Date Reported: 5/6/91 Time Reported: 3:55 EMD #: 91-0593

EMD Staff Contact Harold Freeman

Reported By Company/Agency: EMD Phone:

Site Contact Company/Agency: Mike Daley Phone: 248-1545

Site Name: Unocal Bulk Plant

Site Address: 5528 N.W. Doane Ave

City, zip Portland, OR 97210 County Multnomah

Location Description (if no address):

Name, Quantity, and Physical State (gas, liquid, solid) of Substance Released

35 gallons

How Release Occurred: Over filled truck - ran into underground Spill containment tank & recovered from there (pumped into separator system)

Date of Release 5/6/91 Time of Release:

Media Affected: Soils Yes/(No) Potential Groundwater Y(N)P Air (Y)N/P

Sediments Y(N)P Surface Water (Name)Y(N)/P

Release Stopped and Contained? (Y)N Immediate Response Needed? Y(N)

Potential for Future Releases? Y(N) Explain: See above

Responsible Party Name Same Phone:

Address/City/Zip

Owner/Operator Notified? (Y)/N Assumed Responsibility? (Y)/N

Contractor Hired? Y/(N)

Contractor Name: Phone:

Field Representative: Phone:

Spill Report Requested? Y/(N) Date Required: (attach)

Date Received:

Site Visit Conducted? Y(N) Date:

DEQ Staff Who Inspected Site

List Other Federal/State/Local Agencies Notified (N) and Responding (R)

DEQ Public Affairs Notified Y/(N) Press Release Needed? Y/(N)

NARRATIVE SUMMARY OF RELEASE

Provide site description, explanation of how release occurred, status of remedial action if any, and justification for recommendation that further action or no further action is necessary. Prepare site map if referring release for further action, p.4)

Contacted Mike Daley - Unocal - + confirmed
End info 4pm.

PART II. RELEASE POSES NO SIGNIFICANT THREAT; NO FURTHER ACTION REQUIRED

X De minimis release

Gasoline or diesel fuel

X <50 gallons to ground surface if no apparent threat to groundwater, surface water, humans, sensitive environments

Oil (does not include waste oil)

___ <100 gallons to ground surface if there is no apparent threat to groundwater, surface water, humans, or sensitive environments

Other hazardous substances (includes waste oil)

___ <15 gallons to ground surface if there is no apparent threat to groundwater or surface water, humans or sensitive environment

___ Release by its nature rapidly dissipates

___ Release is permitted or otherwise authorized

___ Release is a FIFRA-registered pesticide, applied appropriately for intended use

X Release has been cleaned up to protective level

___ Release otherwise requires no additonal investigation, removal, remedial action, or long-term environmental or institutional controls

From: Andrea Pollock 5/6/91
Evaluator's Signature Date

HS (Oil) Sewage AQ MISC

cc: Hazardous Materials Section
Regional Operations
Public Affairs
Air Quality
Water Quality
Hazardous Waste

Time Spent 0.1

DEQ EMERGENCY RESPONSE FORM

NORTHWEST REGION SPILL # 90-31

PERSON RECEIVING REPORT
NAME: Don Peters
PHONE NO.: 229 5296
WHEN RECEIVED
DATE: 4/26/90 TIME: 2:30p
EMD INCIDENT NO. 90-0560
(If no EMD contact, see REVERSE)

PERSON REPORTING SPILL
NAME: Mike DAILEY
COMPANY/AGENCY: UNOCAL
PHONE NO.: 248-1545

ON SCENE CONTACT PERSON:
NAME:
COMPANY/AGENCY:
PHONE NO.:

WHERE/WHEN SPILL OCCURRED
LOCATION: UNOCAL AT 5528 NW Doane PTLD.
COUNTY: MULT.
DATE: 4/26/90 TIME: 2p

MATERIAL(S) DESCRIPTION AND QUANTITY
72 gallons gasoline

POTENTIAL FOR FURTHER SPILLAGE? Y (N)

IF YES, DESCRIBE:

AQ NON-RCRA HW ___ RCRA ___ UST ___ WQ

THREAT TO PUBLIC WATERS? Y (N)
IF YES, DESCRIBE:

THREAT TO PUBLIC SAFETY Y (N)
IF YES, DESCRIBE:

HOW SPILL OCCURRED
FAILURE IN OVERFLOW SENSOR FROM TANKER OFF LOADING

RESPONSE ACTION INITIATED:
1. IS SITE SECURED FOR SAFETY? (Y) N
   BY WHOM
2. CONTAINMENT STEPS TAKEN
   (Y) N
3. SPILLER NOTIFIED ___ ___
   ASSUMED CLEANUP RESPONS. ___ ___
   CONTACT NAME & NO.
4. CLEANUP CREW AND EQUIPMENT ON SCENE (Y) N
   IF NOT, EXPECTED ARRIVAL
5. OTHER PUBLIC AGENCIES RESPONDING
   IF NO POLICE OR FIRE, SEE REVERSE

6. NOTIFICATION(S):

7. IS A PUBLIC ANNOUNCEMENT NEEDED? Y (N)

8. SITE VISIT CONDUCTED? Y (N)

ACTION TAKEN:

gas flowed into established underground containment. No release to soil or water environments

DLP.

Time spent 0.5h DLP

GO303 (1/88)
cc: Hazardous Materials Section
Regional Operations
Public Affairs
Hazardous Waste Section (HW Related)
Water Quality (WQ Related)
Air Quality (AQ Related)

COPPOR0002622

SPILL REPORTS PROCEDURE

If a spill call comes directly into a DEQ office, call Emergency Management Division to alert them to the spill: 378-4124, off-hours 1-800-452-0311.

IF NO POLICE OR FIRE RESPONDED, DEQ MUST FILE A SPILL REPORT WITH STATE FIRE MARSHAL THROUGH HAZARDOUS MATERIALS SECTION.

U.S. COAST GUARD - 240-9300

Report all spills into Willamette River below Willamette Falls, and all spills into Columbia River below Bonneville Dam. U.S.C.G. should be the primary responder in these areas.

OREGON DEPARTMENT OF FISH AND WILDLIFE

All spills which might affect fish or wildlife should be called to ODFW. If not in the office, call the regional office closest to the spill.

Gregory Robart - 229-6959

OREGON STATE HEALTH DIVISION - 229-5792 After Hours - 229-5599

Any spill with public health impacts such as a gas release or those into water near public/private water supplies should be called to the Health Division.

Call 229-5792 and indicate you have a spill and need Health Division assistance.

Drinking Water Program

Call whenever a spill might affect a public drinking water intake.

Dave Leland - 229-6307
John Huffman - 229-6309
Jim Boydston - 229-6302

Call Shellfish Protection program when raw or partially treated sewage reaches a bay or estuary.

Bruce Arnold - 229-6269

MULTNOMAH COUNTY HEALTH DEPARTMENT

Call if there may be potential public health impacts in Multnomah County (sewage bypass to Willamette in summer, gas release, etc.)

Dr. Gary Oxman - 248-3674
Art Bloom - 248-3400

OREGON POISON CONTROL CENTER - 225-8968

Call Poison Control for any information about toxic human affects and whenever public health is potentially affected by toxics.

RP1233 (NWR) 1/88

...NCY RESPONSE FORM

GBD/EGW/LLB

NORTHWEST REGION SPILL # K-25

PERSON RECEIVING REPORT
NAME: Rami Nomura
PHONE NO.:

WHEN RECEIVED
DATE: 11/25/89 TIME: 9:35am
EMD INCIDENT NO. 89-1336
(If no EMD contact, see REVERSE)

PERSON REPORTING SPILL
NAME: Bill Gottlieb
COMPANY/AGENCY: EMD
PHONE NO.:

ON SCENE CONTACT PERSON:
NAME: Ken Barton
COMPANY/AGENCY: Unocal
PHONE NO.: 248565

WHERE/WHEN SPILL OCCURRED
LOCATION: Unocal 5528 NW Doane

COUNTY: Mult.
DATE: 11/25/89 TIME: ~9 am

MATERIAL(S) DESCRIPTION AND QUANTITY
3-5 barrels bunker oil

POTENTIAL FOR FURTHER SPILLAGE? Y (N)

IF YES, DESCRIBE:

___ AQ ___ RCRA ___ UST ___ WQ
___ NON-RCRA HW

1 hr

THREAT TO PUBLIC WATERS? Y (N)
IF YES, DESCRIBE:

THREAT TO PUBLIC SAFETY Y (N)

IF YES, DESCRIBE:

HOW SPILL OCCURRED
broken pump - pump broke while filling ship. Pump was over drain which leads to containment system

RESPONSE ACTION INITIATED:

1. IS SITE SECURED FOR SAFETY? (Y) N
   BY WHOM Unocal
2. CONTAINMENT STEPS TAKEN Pump over drain to containment system

	Y	N
3. SPILLER NOTIFIED	✓	
ASSUMED CLEANUP RESPONS.	✓	
CONTACT NAME & NO. Unocal		
4. CLEANUP CREW AND EQUIPMENT ON SCENE		(N)

IF NOT, EXPECTED ARRIVAL Monday

5. OTHER PUBLIC AGENCIES RESPONDING
   IF NO POLICE OR FIRE, SEE REVERSE
   none

6. NOTIFICATION(S):
Report to NRC not req'd (GBD)

7. IS A PUBLIC ANNOUNCEMENT NEEDED? Y (N)

8. SITE VISIT CONDUCTED? Y (N)

ACTION TAKEN:

9:35am William Padillas @ Unocal
While loading barge, steam pump ruptured, squirted out couple barrels onto ground. Area contained. Plan to scoop up material not on concrete pad. Requested report

1:10pm Dennis Coy @ Unocal
80% of material on concrete pad. Will vacuum material on pad & ground & seperator and try to recover product - Mon. morn Requested report. Any surface run off due to rain would drain into containment syster

10/27 9:23am ~~Hank Johnson~~ 248531
Dennis Coy
Clean-up proceeding as schedule requested report

GO303 (1/88)
cc: Hazardous Materials Section
Regional Operations
Public Affairs
Hazardous Waste Section (HW Related)
Water Quality (WQ Related)
Air Quality (AQ Related)

COPPOR0002624

SPILL REPORTS PROCEDURE

If a spill call comes directly into a DEQ office, call Emergency Management Division to alert them to the spill: 378-4124, off-hours 1-800-452-0311.

IF NO POLICE OR FIRE RESPONDED, DEQ MUST FILE A SPILL REPORT WITH STATE FIRE MARSHAL THROUGH HAZARDOUS MATERIALS SECTION.

U.S. COAST GUARD - 240-9300

Report all spills into Willamette River below Willamette Falls, and all spills into Columbia River below Bonneville Dam. U.S.C.G. should be the primary responder in these areas.

OREGON DEPARTMENT OF FISH AND WILDLIFE

All spills which might affect fish or wildlife should be called to ODFW. If not in the office, call the regional office closest to the spill.

Gregory Robart - 229-6959

OREGON STATE HEALTH DIVISION - 229-5792 After Hours - 229-5599

Any spill with public health impacts such as a gas release or those into water near public/private water supplies should be called to the Health Division.

Call 229-5792 and indicate you have a spill and need Health Division assistance.

Drinking Water Program

Call whenever a spill might affect a public drinking water intake.

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John Huffman - 229-6309
Jim Boydston - 229-6302

Call Shellfish Protection program when raw or partially treated sewage reaches a bay or estuary.

Bruce Arnold - 229-6269

MULTNOMAH COUNTY HEALTH DEPARTMENT

Call if there may be potential public health impacts in Multnomah County (sewage bypass to Willamette in summer, gas release, etc.)

Dr. Gary Oxman - 248-3674
Art Bloom - 248-3400

OREGON POISON CONTROL CENTER - 225-8968

Call Poison Control for any information about toxic human affects and whenever public health is potentially affected by toxics.

RP1233 (NWR) 1/88

Memorandum

UNOCAL 76

Unocal Corporation
5528 N.W. Doane Ave.
Portland, Oregon 97207
Telephone 248-1552

December 4, 1989

Rene Normura

Oregon D.E.Q.
N.W. Region
811 S.W. 6th Ave.
Portland, OR 97204

Dear Ms. Normura

As requested, this report is a follow up of the oil spill at the Unocal Portland Terminal which was called into you on 11/25/89. As reported, fuel oil was being pumped into a barge. During the product transfer a steam pump blew a gasket causing approximately 3 to 5 barrels of product to be spilled onto the ground. The product was completely contained in our tank farm. The ground in and around the spill is of a gravel and clay base. The gravel has been steam cleaned off and the product recovered in our slop tank. The steam pump has been repaired, tested, and put back into operation.

Gary M. LeFebvre
Safety Coordinator

DEQ EMERGENCY RESPONSE FORM

NORTHWEST REGION SPILL # 9-19

PERSON RECEIVING REPORT

NAME: Laurie McCulloch

PHONE NO.: 5336

WHEN RECEIVED

DATE: 7/19/89 TIME: 0900

EMD INCIDENT NO. 89-707
(If no EMD contact, see REVERSE)

PERSON REPORTING SPILL

NAME: Henry Johnson

COMPANY/AGENCY: Unocal Corp

PHONE NO.: 248-1533

ON SCENE CONTACT PERSON:

NAME: Dane

COMPANY/AGENCY:

PHONE NO.:

WHERE/WHEN SPILL OCCURRED

LOCATION: 5528 NW Doane Ave Ptld

COUNTY: Mult

DATE: 87/18 TIME: 1600

MATERIAL(S) DESCRIPTION AND QUANTITY

300 gal lube oil

POTENTIAL FOR FURTHER SPILLAGE? Y (N)

IF YES, DESCRIBE:

(V) AQ ( ) RCRA ( ) UST ( ) WQ
(V) NON-RCRA HW

THREAT TO PUBLIC WATERS? Y (N)

IF YES, DESCRIBE:

THREAT TO PUBLIC SAFETY Y (N)

IF YES, DESCRIBE:

HOW SPILL OCCURRED

valve broke - completely contained on property - no release to land or water - cleaned up

RESPONSE ACTION INITIATED:

1. IS SITE SECURED FOR SAFETY? Y N
   BY WHOM
2. CONTAINMENT STEPS TAKEN
   Y N
3. SPILLER NOTIFIED ___ ___
   ASSUMED CLEANUP RESPONS. ___ ___
   CONTACT NAME & NO.
4. CLEANUP CREW AND EQUIPMENT ON SCENE Y N
   IF NOT, EXPECTED ARRIVAL
5. OTHER PUBLIC AGENCIES RESPONDING
   IF NO POLICE OR FIRE, SEE REVERSE

6. NOTIFICATION(S):

7. IS A PUBLIC ANNOUNCEMENT NEEDED? Y (N)

8. SITE VISIT CONDUCTED? Y (N)

ACTION TAKEN:

no action by us

GO303 (1/88)
cc: Hazardous Materials Section
Regional Operations
Public Affairs
Hazardous Waste Section (HW Related)
Water Quality (WQ Related)
Air Quality (AQ Related)

COPPOR0002627

SPILL REPORTS PROCEDURE

If a spill call comes directly into a DEQ office, call Emergency Management Division to alert them to the spill: 378-4124, off-hours 1-800-452-0311.

IF NO POLICE OR FIRE RESPONDED, DEQ MUST FILE A SPILL REPORT WITH STATE FIRE MARSHALL THROUGH HAZARDOUS MATERIALS SECTION.

U.S. COAST GUARD - 240-9300

Report all spills into Willamette River below Willamette Falls, and all spills into Columbia River below Bonneville Dam. U.S.C.G. should be the primary responder in these areas.

OREGON DEPARTMENT OF FISH AND WILDLIFE

All spills which might affect fish or wildlife should be called to ODFW. If not in the office, call the regional office closest to the spill.

Gregory Robart - 229-6959

OREGON STATE HEALTH DIVISION - 229-5792 After Hours - 229-5599

Any spill with public health impacts such as a gas release.

Call 229-5792 and indicate you have a spill and need Health Division assistance.

Drinking Water Program

Call whenever a spill might affect a public drinking water intake.

Dave Leland - 229-6307
John Huffman - 229-6309
Jim Boydston - 229-6302

Call Shellfish Protection program when raw or partially treated sewage reaches a bay or estuary.

Bruce Arnold - 229-6269

MULTNOMAH COUNTY HEALTH DEPARTMENT

Call if there may be potential public health impacts in Multnomah County (sewage bypass to Willamette in summer, gas release, etc.)

Dr. Gary Oxman - 248-3674
Art Bloom - 248-3400

OREGON POISON CONTROL CENTER - 225-8968

Call Poison Control for any information about toxic human affects and whenever public health is potentially affected by toxics.

RP1233 (NWR) 1/88

DEQ EMERGENCY RESPONSE FORM

NORTHWEST REGION SPILL # 677

PERSON RECEIVING REPORT
NAME: R.J. Volpel
PHONE NO.: 5245
WHEN RECEIVED
DATE: 5/10/89 TIME: 1315
EMD INCIDENT NO. EMD89-470
(If no EMD contact, see REVERSE)

PERSON REPORTING SPILL
NAME: Jim Mazza
COMPANY/AGENCY: EMD
PHONE NO.:

ON SCENE CONTACT PERSON:
NAME: Gary
COMPANY/AGENCY: Unocal
PHONE NO.: 248-1545 (32 ext)

WHERE/WHEN SPILL OCCURRED
LOCATION: 5528 NW Doane

COUNTY: Multnomah
DATE: 5/10/89 TIME: 1300

MATERIAL(S) DESCRIPTION AND QUANTITY
40 gallons diesel going into separator

POTENTIAL FOR FURTHER SPILLAGE? Y N

IF YES, DESCRIBE:

___ AQ ___ RCRA ___ UST X WQ
___ NON-RCRA HW

THREAT TO PUBLIC WATERS? Y N X
IF YES, DESCRIBE:

THREAT TO PUBLIC SAFETY Y N X
IF YES, DESCRIBE:

HOW SPILL OCCURRED
fueling ~~Nozzle nozzel~~ failed when tank truck was being fueled

RESPONSE ACTION INITIATED:

1. IS SITE SECURED FOR SAFETY? Y N
   BY WHOM
2. CONTAINMENT STEPS TAKEN

	Y	N
3. SPILLER NOTIFIED	X	
ASSUMED CLEANUP RESPONS.	X	
CONTACT NAME & NO.		
4. CLEANUP CREW AND EQUIPMENT ON SCENE	X	
IF NOT, EXPECTED ARRIVAL		

5. OTHER PUBLIC AGENCIES RESPONDING
   IF NO POLICE OR FIRE, SEE REVERSE
   None

6. NOTIFICATION(S):

7. IS A PUBLIC ANNOUNCEMENT NEEDED? Y N

8. SITE VISIT CONDUCTED? Y N

ACTION TAKEN:
- Approx. 40 gallons diesel fuel spilled to asphalt material flowed to oily water separator for collection & treatment. No fuel oil was discharged.
- No action recommended.

GO303 (1/88)
cc: ~~Hazardous Materials Section~~
~~Regional Operations~~
~~Public Affairs~~
Hazardous Waste Section (HW Related)
~~Water Quality (WQ Related)~~
Air Quality (AQ Related)

COPPOR0002629

SPILL REPORTS PROCEDURE

If a spill call comes directly into a DEQ office, call Emergency Management Division to alert them to the spill: 378-4124, off-hours 1-800-452-0311.

IF NO POLICE OR FIRE RESPONDED, DEQ MUST FILE A SPILL REPORT WITH STATE FIRE MARSHAL THROUGH HAZARDOUS MATERIALS SECTION.

U.S. COAST GUARD - 240-9300

Report all spills into Willamette River below Willamette Falls, and all spills into Columbia River below Bonneville Dam. U.S.C.G. should be the primary responder in these areas.

OREGON DEPARTMENT OF FISH AND WILDLIFE

All spills which might affect fish or wildlife should be called to ODFW. If not in the office, call the regional office closest to the spill.

Gregory Robart - 229-6959

OREGON STATE HEALTH DIVISION - 229-5792 After Hours - 229-5599

Any spill with public health impacts such as a gas release or those into water near public/private water supplies should be called to the Health Division.

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Call if there may be potential public health impacts in Multnomah County (sewage bypass to Willamette in summer, gas release, etc.)

Dr. Gary Oxman - 248-3674
Art Bloom - 248-3400

OREGON POISON CONTROL CENTER - 225-8968

Call Poison Control for any information about toxic human affects and whenever public health is potentially affected by toxics.

RP1233 (NWR) 1/88

PERSON RECEIVING REPORT

NAME: LARRY CWIK

PHONE NO.: 229-5152

WHEN RECEIVED

DATE: 6/11/85 TIME: 9:35AM

EMD INCIDENT NO. EMD-85-247

PERSON REPORTING SPILL

NAME: BILL GOTTLIEB

COMPANY/AGENCY: EMD

PHONE NO.: 378-4124

ON SCENE CONTACT PERSON:

NAME: MIKE CAUWELL

COMPANY/AGENCY: UNION OIL

PHONE NO.: 248-1530

WHERE/WHEN SPILL OCCURRED

LOCATION: 5528 N.W. DOANE (UNION OIL CO.), BETW. FRONT ST & DOANE

COUNTY: MULTNOMAH

DATE: 6/11/85 TIME: BEFORE 9:30AM

MATERIAL(S) DESCRIPTION AND QUANTITY

INDUSTRIAL FUEL (#6 BUNKER) OIL; 4'x4' AREA OF SOAKED DIRT (SEEPAGE) (NO RUNNING OIL)

GO303 (2)

PROXIMITY TO PUBLIC WATERS AND OTHER HAZARDS:

WILLAMETTE RIVER 100 YARDS AWAY

HOW SPILL OCCURRED

EXPLAIN: UNDERGROUND 10" PRODUCT LINE STARTED LEAKING

Dept. of Environmental Quality
RECEIVED
JUN 11 1985
NORTHWEST REGION

NOTIFICATION:

DEQ REGION? ✓ YES ___ NO

WHO? ~~MARY BRIGHT~~ EILEEN CROSIER

PUBLIC INFO? ___ YES ___ NO

WHO? ___

EPA? ✓ YES ___ NO

WHO? COPY SENT

EMD? ✓ YES ___ NO

WHO? (THEY CALLED IN)

UPDATE EMD? ___ YES ✓ NO

DATE: ___

ACTION TAKEN:

CORRECTIVE ACTION:

GOING TO DIG UP AND REPLACE PIPE AND CART AWAY CONTAMINATED SOIL

~~SEC~~ ~~HMD~~ ~~CRE~~

6/13/85 1147 Discussed spill with Lyle Brehm in Terminal Office. 1200 Photographed spill site, and discussed spill with Bill O'Bcoll & Lyle at site. Bill said leak in joint seal was probably caused by over-pressure in the line during attempt to transfer oil when it was too cool. Since cold #6 oil is very heavy viscosity it did not flow or penetrate far and will be easily cleaned up with no resultant harm to the environment. Harry M. Demaray 6/14/85

COPPOR0002631

PERSON RECEIVING REPORT

NAME: Larry M. Schurr

PHONE NO.: 229-6932

WHEN RECEIVED

DATE: 6/22/82 TIME: 10:50

EMD INCIDENT NO. None

PERSON REPORTING SPILL

NAME: Evelyn

COMPANY/AGENCY: OEMB

PHONE NO.:

ON SCENE CONTACT PERSON:

NAME: Phil Wolff

COMPANY/AGENCY: Union Oil Co.

PHONE NO.: 248-1532

WHERE/WHEN SPILL OCCURRED

LOCATION: 5528 N.W. Doan Ave, Portland

COUNTY: Multnomah

DATE: 6/22/82 TIME: 10:15 AM

MATERIAL(S) DESCRIPTION AND QUANTITY

50 gallons Lube Oil

PROXIMITY TO PUBLIC WATERS AND OTHER HAZARDS:

Storm sewer near area — not likely to enter.

HOW SPILL OCCURRED

EXPLAIN: Tank overfill

Dept. of Environmental Quality
RECEIVED
JUN 28 1982
NORTHWEST REGION

NOTIFICATION:

DEQ REGION? X YES ___ NO

WHO?

PUBLIC INFO? ___ YES X NO

WHO?

EPA? ___ YES X NO

WHO?

EMD? ___ YES X NO

WHO?

UPDATE EMD? ___ YES X NO

DATE:

ACTION TAKEN:

Coast Guard notified. Spill has been cleaned up.

GO303 (2)

COPPOR0002632

DEQ EMERGENCY RESPONSE FORM

NORTHWEST REGION SPILL # A-14

PERSON RECEIVING REPORT

NAME: MICHELLE DEQ

PHONE NO.: _____

WHEN RECEIVED

DATE: 1/28/87 TIME: _____

EMD INCIDENT NO.
(If no EMD contact, SEE REVERSE)

PERSON REPORTING SPILL

NAME: MIKE DAILEY

COMPANY/AGENCY: UNOCAL

PHONE NO.: 2481572

ON SCENE CONTACT PERSON:

NAME: _____

COMPANY/AGENCY: _____

PHONE NO.: _____

WHERE/WHEN SPILL OCCURRED

LOCATION: WILLAMETTE

COUNTY: MULTNOMAH

DATE: 1/28/87 TIME: _____

MATERIAL(S) DESCRIPTION AND QUANTITY

5-10 gal diesel spilled during Tug fueling

POTENTIAL FOR FURTHER SPILLAGE? Y ___ N X

IF YES, DESCRIBE: _____

___ AQ ___ RCRA ___ UST X WQ

___ NON-RCRA HW

THREAT TO PUBLIC WATERS? Y X N ___

IF YES, DESCRIBE: _____

THREAT TO PUBLIC SAFETY Y ___ N X

IF YES, DESCRIBE: _____

HOW SPILL OCCURRED

RESPONSE ACTION INITIATED:

1. IS SITE SECURED FOR SAFETY? Y X N ___
   BY WHOM _____
2. CONTAINMENT STEPS TAKEN YES
3. SPILLER NOTIFIED Y ___ N ___
   ASSUMED CLEANUP RESPONS. Y ___ N ___
   CONTACT NAME & NO. _____
4. CLEANUP CREW AND EQUIPMENT ON SCENE Y ___ N ___
   IF NOT, EXPECTED ARRIVAL _____
5. OTHER PUBLIC AGENCIES RESPONDING
   IF NO POLICE OR FIRE, SEE REVERSE

6. NOTIFICATION(S): _____

7. IS A PUBLIC ANNOUNCEMENT NEEDED? Y ___ N ___

ACTION TAKEN:

Coast Guard on site

Ed Woods

GO303 (8/86)
cc: Hazardous Materials Sect
Regional Operations
Public Affairs
Hazardous Waste Section (HW Related)
Water Quality (WQ Related)
Air Quality (AQ Related)

COPPOR0002633

DEQ EMERGENCY RESPONSE FORM

PERSON RECEIVING REPORT

NAME: LARRY M. SCHURR

PHONE NO.: 229-6932

WHEN RECEIVED

DATE: 7-19-82 TIME: 2:50 PM

EMD INCIDENT NO. ORS 82-78

PERSON REPORTING SPILL

NAME: PAUL LUCAS

COMPANY/AGENCY: USCG

PHONE NO.: 240-9308

ON SCENE CONTACT PERSON:

NAME: Kelly Ballard

COMPANY/AGENCY: Union Oil Co.

PHONE NO.: 248-1527

WHERE/WHEN SPILL OCCURRED

LOCATION: UNION Oil Dock
FRONT STREET

COUNTY (MULTNOMAH)

DATE: ~~7-19-82~~ TIME: 2:33 PM

MATERIAL(S) DESCRIPTION AND QUANTITY

1000+ gallons diesel

PROXIMITY TO PUBLIC WATERS AND OTHER HAZARDS:

IN Willamette River.
River Mile 8 or 9

HOW SPILL OCCURRED

EXPLAIN: CREW WAS WORKING ON LINE. LINE "blew out"

Dept. of Environmental Quality
RECEIVED
JUL 19 1982
NORTHWEST REGION

NOTIFICATION:

DEQ REGION? X YES ___ NO

WHO? ___

PUBLIC INFO? X YES ___ NO

WHO? ___

EPA? X YES ___ NO

WHO? ___

EMD? X YES ___ NO

WHO? Abby

UPDATE EMD? ___ YES ___ NO

DATE: ___

ACTION TAKEN:

~~SWEET~~
TGB
HMB

UNION is putting out boom.
Reidel in in route.
USCG is responding.

2:52 PM Abby - OEMI called to report.
She said spill was 2000g.

GO303 (2)

COPPOR0002634